CURRICULUM VITAE DELL'ATTIVITA' SCIENTIFICA E DIDATTICA REDATTO AI SENSI DEGLI ARTT. 46 E 47 DEL D.P.R. 28.12.2000, N. 445 (DICHIARAZIONI SOSTITUTIVE DI CERTIFICAZIONI E DELL'ATTO DI NOTORIETA')

Il sottoscritto
COGNOME **TOSI**
NOME **SILVANO** CODICE FISCALE **TSOSVN76H27I693A**
NATO A **SESTRI LEVANTE** PROV. **GENOVA**
IL **27/06/1976** SESSO **MASCHILE**

consapevole che chiunque rilascia dichiarazioni mendaci, forma atti falsi o ne fa uso è punito ai sensi del codice penale e delle leggi speciali in materia,

DICHIARA:

- di avere svolto il seguente **percorso accademico e scientifico**
  - Settembre 2015: **conferma in ruolo** come ricercatore a tempo indeterminato, SSD FIS01, settore concorsuale 02/A1, presso il Dipartimento di Fisica dell'Università degli Studi di Genova;
  - Gennaio 2014: ottenimento dell'**Abilitazione Scientifica Nazionale 2012 per la seconda fascia, settore concorsuale 02/A1**;
  - da Dicembre 2011: **ricercatore a tempo indeterminato**, SSD FIS01, settore concorsuale 02/A1, presso il Dipartimento di Fisica dell'Università degli Studi di Genova;
  - da Ottobre 2008 a Dicembre 2011: **contratto di ricerca con durata determinata** del CNRS (Centre National pour la Recherche Scientifique) presso l'Istituto di Fisica Nucleare di Lione, Francia, per attività di ricerca nell'esperimento CMS.
  - da Luglio 2004 a Ottobre 2008: titolare di **assegni di ricerca** dell'Università degli Studi di Genova per attività di ricerca nell'esperimento BABAR, per un totale di anni 4;
  - Maggio 2004: conseguimento del titolo di **Dottore di Ricerca in Fisica** presso l'Università degli Studi di Genova. Titolo della tesi: "Study of hadronic decays of charmonium states in the $B \to (c\bar{c})K$ process";
  - Luglio 2000: **borsa di studio semestrale dell'Istituto Nazionale di Fisica Nucleare** (INFN) per neolaureati;

- Aprile 2000: **Diploma di Laurea in Fisica** presso l'Università degli Studi di Genova con votazione 110/110 con lode. Titolo della tesi: "Studio del canale di decadimento $J/\psi K_L$ per la misura della violazione di CP nel sistema dei mesoni B";
- Luglio 1995: **Diploma di Maturità Classica** con votazione 60/60;
- Complessivamente, membro dell'esperimento di fisica delle alte energie BABAR dal Maggio 1999 all'Ottobre 2008, trascorrendo circa due anni e mezzo allo Stanford Linear Accelerator Center (SLAC); membro dell'esperimento di fisica delle alte energie CMS a LHC dall'Ottobre 2008.
- Incarico di **associazione scientifica all'Istituto Nazionale di Fisica Nucleare** per tutti i periodi trascorsi a Genova.

- di avere svolto la seguente **attività di ricerca nell'ambito dell'esperimento BABAR**
  - responsabile del **calcolo e del monitoraggio delle efficienze del rivelatore di muoni** (18 mesi nel 2001 e 2002). Questi studi hanno consentito di evidenziare e controllare il prematuro deterioramento di una parte del rivelatore (si veda ad esempio la pubblicazione allegata "Mechanisms affecting performance of the BaBar resistive plate chambers and searches for remediation," Nucl. Instrum. Meth. A **508**, 128 (2003));
  - partecipazione alla **costruzione e alle fasi di test dei contatori a piani resistivi di seconda generazione** per il rivelatore di muoni, trascorrendo diversi periodi nel corso dell'anno 2001 presso le ditte Panpla e General Tecnica (si veda ad esempio la pubblicazione allegata "Performance of second generation BaBar resistive plate chambers," Nucl. Instrum. Meth. A **552**, 276 (2005));
  - **deputy run coordinator** (6 mesi nel 2002). Il *deputy run coordinator* assiste il *run coordinator* nelle fasi di presa dati e nell'organizzazione e pianificazione delle operazioni congiuntamente al personale dell'acceleratore.
  - partecipazione alla costruzione e alle fasi di test dei tubi a *streamer* limitato per il rivelatore di muoni, trascorrendo vari periodi nel corso dell'anno 2004 presso la ditta PolHiTech;
  - **coordinatore delle operazioni del rivelatore di muoni** (6 mesi nel 2004, 2005, 2006, 2008), con responsabilità di assicurare il monitoraggio e il buon funzionamento del rivelatore e prontamente riparare o sostituire le parti difettose. Il coordinatore delle operazioni è altresì l'esperto *on call* durante la presa dati.
  - partecipazione a numerosi **turni di presa dati** di BABAR come *shift leader*.
  - analisi dati per la **misura del parametro** $\sin 2\beta$ **della matrice di Cabibbo-Kobayashi-Maskawa** (CKM) tramite il decadimento $B^0 \to J/\psi K_L$, con presentazione dei risultati in conferenze internazionali e pubblicazione su riviste scientifiche internazionali (si vedano ad esempio le pubblicazioni allegate "Measurement of the CP asymmetry amplitude $\sin 2\beta$ with B^0 mesons," Phys. Rev. Lett.

89, 201802 (2002) e "Study of time dependent CP-violating asymmetries and flavor oscillations in neutral B decays at the $\Upsilon(4S)$," Phys. Rev. D **66**, 032003 (2002)). Le misure dei parametri della matrice CKM hanno consentito di verificare il meccanismo di violazione della simmetria CP previsto nel Modello Standard.

- analisi dati per lo **studio di stati legati di quark c e $\bar{c}$ (charmonio) usando modi di decadimento adronici** in decadimenti dei mesoni B, con presentazione dei risultati in conferenze internazionali e pubblicazione su riviste scientifiche internazionali (si vedano ad esempio le pubblicazioni allegate "Measurement of the branching fraction for $B^{\pm} \to \chi_{c0} K^{\pm}$," Phys. Rev. D **69**, 071103 (2004) e "Study of B-meson decays to $\eta_c K^{(*)}$, $\eta_c(2S) K^{(*)}$ and $\eta_c \gamma K^{(*)}$" Phys. Rev. D **78**, 012006 (2008)); parte del medesimo lavoro è stata utilizzata anche in altre pubblicazioni di BABAR. Questi studi hanno consentito di misurare i rapporti di decadimento di mesoni B in stati del charmonio per processi soppressi da barriere di momento angolare e di migliorare la conoscenza dei parametri di stati di singoletto del charmonio.
- analisi dati per la **verifica dell'universalità leptonica** in decadimenti di stati vettoriali Υ del bottomonio: i risultati preliminari del lavoro su dati alla risonanza $\Upsilon(4S)$ sono stati utilizzati dalla collaborazione BABAR per richiedere prese dati dedicate ad energie precedentemente non considerate. Una eventuale violazione dell'universalità leptonica sarebbe indicazione di nuova fisica oltre il Modello Standard. I risultati ottenuti sui nuovi dati ad energie della risonanza $\Upsilon(3S)$ sono stati presentati a conferenze internazionali e pubblicati su riviste internazionali (si veda ad esempio la pubblicazione allegata "Test of lepton universality in $\Upsilon(1S)$ decays at BaBar," Phys. Rev. Lett. **104** (2010) 191801). Su tale lavoro ho diretto una tesi di laurea specialistica.
- **coordinatore di diversi comitati di revisione di analisi dati** (a partire dal 2004). Tali comitati hanno il compito di verificare la correttezza, richiedendo eventualmente studi addizionali, e assicurare la migliore qualità delle misure ottenute dai dati di BABAR e delle presentazioni a conferenze e pubblicazioni su riviste scientifiche internazionali che ne risultano (si vedano ad esempio le pubblicazioni allegate "Observation of the bottomonium ground state in the decay $\Upsilon(3S) \to \gamma \eta_b$" Phys. Rev. Lett. **101**, 071801 (2008) e "Direct CP, Lepton Flavor and Isospin Asymmetries in the Decays $B \to K^{(*)} \ell^+ \ell^-$" Phys. Rev. Lett. **102**, 091803 (2009)).
- **rappresentante dell'esperimento BABAR nell'ambito del "Heavy Flavor Averaging Group"** per le misure di decadimenti dei mesoni B in charmonio (da Febbraio 2005 a Settembre 2008). HFAG è una comunità di fisici di diversi esperimenti che fornisce all'intera comunità della fisica delle alte energie i valori delle medie mondiali di varie misure nel settore della fisica del sapore, da rapporti di decadimento a asimmetrie di CP, tenendo opportunamente in conto le correlazioni tra le misure dei vari esperimenti.
- **co-coordinatore del** *data quality group* **dell'esperimento** da Dicembre 2005 a Marzo 2007. Tale gruppo certifica la buona qualità dei dati di BABAR, dalle fasi

di presa dati sino alla distribuzione ai membri della collaborazione, includendo gli stadi di ricostruzione, trattamento e filtro degli eventi. Il gruppo altresì certifica la validità delle nuove versioni del codice per la ricostruzione e il filtro degli eventi e per le simulazioni.

– **membro del** *validation board* **dell'esperimento** (da Dicembre 2005 a Marzo 2007). Il *validation board* esamina le richieste di cambiamenti e miglioramenti al codice di ricostruzione e simulazione.

- di avere svolto e stare svolgendo la seguente **attività di ricerca nell'ambito dello esperimento CMS**

  – membro del gruppo generatori Monte Carlo, con responsabilità della **produzione di eventi simulati a livello partonico con il generatore MadGraph** per tutta la collaborazione (2 anni, fino a fine 2010); tali campioni sono stati utilizzati per meglio comprendere la risposta del rivelatore confrontando dati e simulazioni, nella determinazione della selezione degli eventi e nello studio di eventi di segnale e fondo in diversi lavori di analisi dati, che hanno condotto a numerose pubblicazioni (si veda ad esempio la pubblicazione allegata "Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC" Phys.Lett. B716 (2012) 30-61);

  – persona di contatto tra il gruppo generatori Monte Carlo e il gruppo di Fisica del Top (2 anni, fino a fine 2010), con **responsabilità della scelta dei campioni Monte Carlo per la fisica del top**, dei parametri teorici da utilizzare, della produzione degli eventi e del mantenimento della documentazione dei campioni simulati disponibili e delle sezioni d'urto previste (si vedano ad esempio le pubblicazione allegate "Measurement of the $t\bar{t}$ Production Cross Section in pp Collisions at $\sqrt{s} = 7$ TeV using the Kinematic Properties of Events with Leptons and Jets" Eur. Phys. J. C **71**, 1721 (2011) e "Measurement of the $t\bar{t}$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV" JHEP **1107**, 049 (2011));

  – membro del gruppo responsabile di calcolare e fornire alla collaborazione **raccomandazioni ufficiali di sezioni d'urto**, complete di incertezze sistematiche, per i processi del Modello Standard, da utilizzare nel confronto tra dati e simulazioni e nella determinazione delle performance delle analisi dati;

  – partecipazione a **turni di presa dati di CMS** per il monitoraggio della buona qualità dei dati;

  – analisi dati per la **misura della sezione d'urto di produzione di coppie top-antitop e ricerca di risonanze top-antitop** previste in modelli oltre il Modello Standard: i risultati ottenuti sono stati presentati a conferenze e pubblicati su riviste internazionali (si vedano le pubblicazioni allegate "Search for resonant $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV" JHEP **1212**,

015 (2012) e "Searches for new physics using the $t\bar{t}$ invariant mass distribution in pp collisions at $\sqrt{s}$=8 TeV" Phys. Rev. Lett. **111**, 211804 (2013)); sull'argomento ho diretto lo stage di uno studente;

- studio fenomenologico per la fattibilità della **ricerca di stati finali con 4 quark top** agli esperimenti di LHC (si veda la pubblicazione allegata "Four tops on the real projective plane at LHC," JHEP **1110** (2011) 042); sull'argomento ho diretto lo stage di uno studente;
- **co-coordinatore del gruppo "sezioni d'urto" all'interno del gruppo "Fisica del Top"** nel 2011; si tratta di una nuova entità che raggruppa tutti i lavori di analisi dati per le misure delle sezioni d'urto di produzione, inclusive e differenziali, di coppie top-antitop; il gruppo comprende all'incirca 120 ricercatori di 25 istituzioni. I coordinatori del gruppo hanno la responsabilità di tutte le pubblicazioni di CMS sull'argomento con il compito di organizzare il lavoro e guidare gli autori nell'impostazione delle analisi dati, delle metodologie, della valutazione delle incertezze sistematiche e delle misure ottenute e garantire la migliore qualità dei risultati e delle pubblicazioni che ne conseguono. Numerosi risultati sono stati presentati alle conferenze nel corso del 2011 e 2012 e sono stati pubblicati su riviste internazionali (si vedano ad esempio le pubblicazioni allegate "Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s}$ = 7 TeV" Phys.Lett. B709 (2012) 28-49 e "Measurement of differential top-quark-pair production cross sections in *pp* colisions at $\sqrt{s}$ = 7 TeV" Eur. Phys. J. C **73**, 2339 (2013));
- **co-coordinatore del nuovo gruppo "Matrix element and future generators" nell'ambito del gruppo Generatori Monte Carlo**, da luglio 2013 a settembre 2015; il gruppo ha il compito di curare l'integrazione dei generatori per la fisica delle alte energie nel sistema di CMS e della scelta dei parametri teorici e della configurazione per la produzione di eventi simulati con generatori a "matrix element" utilizzati dall'intera collaborazione per le analisi dati (si vedano ad esempio le pubblicazioni allegate "Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV" JHEP **1406**, 120 (2014) e "Measurement of the top quark pair production cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV" Phys. Rev. Lett. 116, 052002 (2016));
- membro di alcuni **comitati di revisione di analisi dati** (a partire dal 2012) per la verifica della qualità e della correttezza delle misure effettuate da CMS ai fini della presentazione a conferenze e pubblicazione su riviste scientifiche internazionali (si veda ad esempio la pubblicazione allegata "Measurement of J/ψ and ψ(2S) prompt double-differential cross sections in pp collisions at $\sqrt{s} = 7$ TeV" Phys. Rev. Lett. 114, 191802 (2015));
- attività di **calibrazione del rivelatore a strip di silicio** per l'identificazione dei canali malfunzionanti nel 2013-14;
- analisi dati per la **misura della massa del quark top in eventi con produzione elettrodebole del top** (*single top*), risultato presentato a conferenze

internazionali e in fase di pubblicazione sulla rivista European Physical Journal C;

- studio delle **performance dei sensori in grafite pirolitica** per il nuovo rivelatore a pixel di silicio del progetto CT-PPS per la fisica in avanti nel 2016: sull'argomento ho diretto una tesi laurea triennale;
- membro del **Conference Committee di CMS** da settembre 2015; il gruppo è responsabile della scelta degli argomenti e degli speaker per le presentazioni da effettuare nelle varie conferenze internazionali;
- **vice Principal Investigator** del gruppo di ricerca genovese di CMS dal 2015:
- responsabile scientifico dell'assegno di ricerca biennale del dott. Fabio Ravera, cofinanziato con Fondi di Ricerca di Ateneo 2016 e dall'INFN, dal titolo "Commissioning del nuovo rivelatore a pixel del progetto CT-PPS e misure di fisica diffrattiva e del quark top per l'esperimento CMS a LHC".

- di svolgere inoltre le seguenti **altre attività di ricerca**

  - a partire da fine 2012, partecipazione al Progetto di Ricerca di Ateneo (PRA) per l'utilizzo dell'**Osservatorio Astronomico Regionale del Parco dell'Antola**, in provincia di Genova, per effettuare misure di astronomia e astrofisica e attività di didattica, orientamento e divulgazione, attività condotta unitamente al dott. Carlo Schiavi del Dipartimento di Fisica (DIFI), a un gruppo del Dipartimento di Informatica, Bioingegneria, Robotica e Ingegneria dei Sistemi (DIBRIS) dell'Università di Genova e ad astrofisici dell'Istituto Nazionale di Astrofisica (INAF).
  - **responsabilità dei fondi PRA2014** su questo progetto da novembre 2014 a novembre 2016.
  - predisposizione del telescopio per un suo uso automatizzato e da remoto ai fini dell'inserimento in un network globale di telescopi da un lato, e per l'utilizzo agevole dal DIFI per finalità di ricerca e didattica dall'altro;
  - calibrazione e **caratterizzazione scientifica** della strumentazione
  - misure di **transiti di pianeti extra-solari** con tecniche fotometriche: risultati preliminari sono stati presentati ad un workshop internazionale e sono stati accettati per pubblicazione dalla rivista Publications of the Astronomical Society of the Pacific; su questo argomento ho diretto una tesi di laurea magistrale in Fisica.
  - **osservazione fotometrica di candidati blazar** e studio di fattibilità di misure di variabilità della loro luminosità; i blazar sono una categoria di nuclei galattici attivi con caratteristiche specifiche del getto emesso; su questo argomento ho diretto una tesi di laurea magistrale in Fisica;

- studio di fattibilità della **misura della costante di Hubble con il metodo del ritardo temporale usando quasar sotto effetto lente gravitazionale**; su questo argomento sto dirigendo una tesi di laurea magistrale in Fisica.

- di essere firmatario delle seguenti **pubblicazioni**
  - tutte le pubblicazioni dell'esperimento BABAR a partire da agosto 2001 fino al 2010;
  - tutte le pubblicazioni dell'esperimento CMS a partire da ottobre 2009;
  - in totale si tratta di **964 pubblicazioni** su riviste scientifiche internazionali;
  - secondo i parametri di Web of Science, **il numero totale di citazioni ammonta a oltre 27800**, dopo avere già sottratto le auto-citazioni. Il **fattore** h **assomma a 91**.

- di avere partecipato all'**organizzazione di conferenze** come di seguito dettagliato
  - organizzazione e conduzione assieme al dottor Maurizio Pierini della sessione di Fisica del Sapore della conferenza Incontri di Fisica delle Alte Energie (IFAE 2009), 15-17/04/2009, Bari;
  - organizzazione scientifica delle giornate CMS-France-Physique, 18-19/11/2010, Lione;
  - selezione di abstract, presentazioni e speaker per l'esperimento CMS per diverse conferenze nazionali e internazionali nell'ambito del Conference Committee della collaborazione.
    * IFAE2017: XVI Incontri di fisica delle alte energie, 19-21 Apr 2017, Trieste (Italy), 12 presentazioni di CMS
    * ALPS2017, an Alpine LHC Physics Summit, 17-22 Apr 2017, Obergurgl (Austria), 9 presentazioni di CMS
    * FTAPS, Frontiers in Theoretical and Applied Physics, 22-25 Feb 2017, Sharjah (Emirati Arabi Uniti), 3 presentazioni di CMS
    * Epiphany 2017, Institute of Nuclear Physics IFJ PAN, Krakow, Polonia: XXIII Cracow EPIPHANY Conference on the Physics in LHC Run2, 3 presentazioni di CMS
    * Miami2016: Miami topical conference on elementary particles, astrophysics, and cosmology, 14-20 Dec 2016, Fort Lauderdale, FL (USA), 1 presentazione di CMS

* Kruger2016: Fourth Biennial Workshop on Discovery Physics at the LHC, 5-9 Dec 2016, Skukuza (Sud Africa), 6 presentazioni di CMS
* Vth Workshop on QCD and Diffraction at the LHC. Saturation 1000+, 5-7 Dec 2016, Cracow (Polonia), 1 presentazione di CMS
* 8thMPI@LHC: 8th International Workshop on Multiple Partonic Interactions at the LHC, 28 Nov-2 Dec 2016, Hotel Rincon del Arco, San Cristobal de las Casas (Messico), 6 presentazioni di CMS
* SILAFAE2016: XI Latin American Symposium of High Energy Physics, 14-18 Nov 2016, Antigua Guatemala (Guatemala), 4 presentazioni di CMS
* SCCTW2016: 4th South-Caucasus Computing and Technology Workshop, 3-7 Oct 2016, Tbilisi (Georgia), 1 presentazione di CMS
* SIF 2016: 102-esimo Congresso Nazionale Societ Italiana di Fisica, 26-30 Sep 2016, Padova (Italia), 11 presentazioni di CMS
* VERTEX2016: VERTEX2016, 25-30 Sep 2016, INFN and University of Pisa, La Biodola, Elba (Italia), 7 presentazioni di CMS
* LIO, Lyon, Francia: International conference on composite models, electroweak physics and the LHC, 1 presentazione di CMS
* PIXEL2016, INFN, Sestri Levante, Italia: International Workshop on Semiconductor Pixel Detectors for Particles and Imaging, 7 presentazioni di CMS
* Diffraction 2016, Acireale, Italia International Workshop on Diffraction in High-Energy Physics, 7 presentazioni di CMS
* XII Confinement, Thessaloniki, Grecia: XII Quark Confinement and the Hadron Spectrum, 3 presentazioni di CMS
* QCD@LHC2016, Zurich (Svizzera): QCD@LHC workshop, 22 presentazioni di CMS
* MC4BSM 2016, University of Chinese Academy of Sciences, Beijing, Cina: The 10th Monte Carlo Tools for Physics Beyond Standard Model, 1 presentazione di CMS
* BOOST 2016, University of Zurich, ETH Zurich, Zurich, Svizzera: 8th International Workshop on Boosted Object Phenomenology, Reconstruction and Searches in HEP, 18 presentazioni di CMS
* FPCapri2016, Anacapri, Italia: Sixth Workshop on Theory, Phenomenology and Experiments in Flavour Physics, 1 presentazione di CMS
* Forward Physics at LHC Energy, La Biodola, Elba, Italia: 3rd Elba Workshop on Forward Physics at LHC Energy, 3 presentazioni di CMS
* Tasting, Benasque, Spagna: Higgs Tasting Workshop 2016, 2 presentazioni di CMS
* IFAE2016, Dipartimento di Fisica, Università di Genova, Genova, Italia: XV Incontri di Fisica delle Alte Energie, 13 presentazioni di CMS
* LaThuile 2016, La Thuile, Italia: Les Rencontres de Physique de la Vallee d'Aoste, 11 presentazioni di CMS

* ACAT2016, UTFSM Physics Dept., Valparaiso, Valparaiso, Cile: 17th International workshop on Advanced Computing and Analysis Techniques in physics research, 7 presentazioni di CMS
* Epiphany 2016, Institute of Nuclear Physics IFJ PAN, Krakow, Polonia: XXII Cracow EPIPHANY Conference on the Physics in LHC Run2, 9 presentazioni di CMS
* DarkMatter-Cairo, Cairo, Egitto: 1 presentazione di CMS
* KIAS-CFHEP, Seoul, Corea del Sud: Workshop on particle physics and cosmology, 1 presentazione di CMS

- di avere effettuato le seguenti **presentazioni a conferenze e congressi nazionali e internazionali**

  – comunicazione al LXXXVIII Congresso Nazionale della Società Italiana di Fisica, 26/09-01/10/2002, Alghero (SS): "Studi di decadimenti adronici del charmonio nel sistema dei mesoni B nell'esperimento BABAR";

  – presentazione alla conferenza Incontri di Fisica delle Alte Energie (IFAE 2003), 23-26/04/2003, Lecce: "Charmonium physics at B-Factories";

  – presentazione alla 6th International Conference on Hyperons, Charm and Beauty Hadrons (BEACH 2004), 27/06-03/07/2004, Chicago, Illinois (USA): "Results on the CKM Parameter β (ϕ_1) from the BABAR and Belle Experiments";

  – comunicazione al XCI Congresso Nazionale della Società Italiana di Fisica, 26-30/09/2005, Catania: "Spettroscopia di nuovi stati adronici a BABAR";

  – presentazione alla IVth International Conference on Quarks and Nuclear Physics (QNP06), 05-10/06/2006, Madrid (Spagna): "Hadron spectroscopy at BABAR";

  – presentazione al International Workshop on Heavy Quarkonium - 2006, 27-30/06/2006, Brookhaven National Laboratory (USA): "$Y(mS) \to \pi\pi Y(nS)$ transitions in BABAR";

  – presentazione alla 2007 Europhysics Conference on High Energy Physics (EPS07), 19-25/07/2007, Manchester (Regno Unito): "Hadronic B decays at BABAR";

  – presentazione al International Workshop on Heavy Quarkonium - 2007, 17-20/10/2007, DESY Laboratory (Germania): "Study of the ISR production of the $D\bar{D}$ system at BABAR";

  – presentazione al Joint BES-Belle-CLEO-BABAR Workshop on Charm Physics, 26-27/11/2007, Beijing (Cina):"Charmonium spectroscopy and decay";

  – presentazione al SuperB Physics Retreat, 7-15/01/2008, Valencia (Spagna): "Charmonium like spectroscopy: potentials of the current generation of experiments";

  – presentazione alla conferenza Incontri di Fisica delle Alte Energie (IFAE 2008), 26-28/03/2008, Bologna: "Recent results on Charmonium physics";

- comunicazione al XCIV Congresso Nazionale della Società Italiana di Fisica, 13-26/09/2008, Genova: "Risultati recenti di BABAR";
- presentazione alla International Conference on Particles And Nuclei (PANIC 2008), 9-14/11/2008, Eilat (Israele):"Bottomonium Results by BABAR" ;
- presentazione alla conferenza Incontri di Fisica delle Alte Energie (IFAE 2009), 15-17/04/2009, Bari, insieme al dott. Maurizio Pierini: "Sommario della sessione di Fisica del sapore";
- presentazione alla conferenza Rencontres de Physique des Particules (RPP2010), 25-27/01/2010, Lione (Francia): "LHC physics prospects";
- presentazione alla IX Flavor Physics and CP Violation conference (FPCP 2011), 23-27/05/2011, Maale Hahamisha (Israel): "Results on Top physics by CMS" ;
- presentazione, unitamente ai collaboratori del DIBRIS, al GLORIA Project community Open Day - Bologna, 15/05/2014: "The new Monte Antola Telescope";
- presentazione "Top Physics results by CMS" alla 3rd International Conference on New Frontiers in Physics, 28/07-06/08/2014, Kolymbari (Grecia).

- di avere presentato i seguenti **seminari su invito**
  - "Highlights on quarkonium physics at BaBar", 22 settembre 2008, all'IKTP di Dresda, Germania;
  - "Résultats récents sur la physique du top à CMS", 14 febbraio 2011, all'Ecole Polytechnique, Parigi, Francia;
  - "Mesures de section efficace de production de paires ttbar à CMS", 17 febbraio 2011, al laboratorio LPNHE di Parigi, Francia;
  - "Selection de résultats récents de physique du quark top à CMS", 21 febbraio 2011, al laboratorio CPPM di Marsiglia, Francia;
  - "Mesures de section efficace et propriétés du quark top à CMS", 4 marzo 2011, all'LPC di Clermont Ferrand, Francia;
  - "Highlights on Top-quark physics results by CMS", 28 novembre 2011, al laboratorio DESY di Amburgo, Germania.

- di avere svolto la seguente **attività didattica** presso l'Università degli Studi di Genova:
  - A.a. 2016-2017, entrambi i semestri, corso di Fisica Generale I e II modulo del CS in Scienza dei Materiali (codocenza), corso obbligatorio.
  - A.a. 2016-2017, secondo semestre, corso di Fisica Nucleare, delle Particelle e Astrofisica 1 del CS in Fisica, corso obbligatorio.

- A.a. 2016-2017, corso di Astronomia Ottica per la Scuola di Dottorato di Ricerca in Fisica, corso a scelta, attivato.
- A.a. 2015-2016, entrambi i semestri, corso di Fisica Generale I e II modulo del CS in Scienza dei Materiali (codocenza), corso obbligatorio.
- A.a. 2015-2016, secondo semestre, corso di Fisica Nucleare, delle Particelle e Astrofisica 1 del CS in Fisica, corso obbligatorio.
- A.a. 2014-2015, secondo semestre, corso di Fisica Generale dei CS in Ingegneria Nautica e Meccanica - sede di La Spezia (codocenza), corso obbligatorio;
- A.a. 2014-2015, entrambi i semestri, corso di Fisica Generale I e II modulo del CS in Scienza dei Materiali (codocenza), corso obbligatorio.
- A.a. 2013-2014, primo semestre, corso di Fisica Generale dei CS in Ingegneria Nautica e Meccanica - sede di La Spezia (codocenza), corso obbligatorio;
- A.a. 2013-2014, entrambi i semestri, corso di Fisica Generale I e II modulo del CS in Scienza dei Materiali (codocenza), corso obbligatorio;
- A.a. 2013-2014, secondo semestre, corso di Laboratorio di Fisica 1-B del CS in Fisica (aiuto didattico), corso obbligatorio;
- A.a. 2012-2013, primo semestre, corso di Fisica Generale dei CS in Ingegneria Nautica e Meccanica - sede di La Spezia (esercitatore), corso obbligatorio;
- A.a. 2012-2013, secondo semestre, corso di Fisica Generale del CS in Ingegneria Navale (codocenza), corso obbligatorio;
- A.a. 2011-2012, secondo semestre, corso di Fisica Generale del CS in Ingegneria Meccanica (esercitatore), corso obbligatorio;
- A.a. 2007-2008, secondo semestre, corso di Laboratorio di Calcolo B del CS in Fisica (aiuto didattico), corso obbligatorio;
- A.a. 2006-2007, secondo semestre, corso di Laboratorio di Calcolo B del CS in Fisica (aiuto didattico)corso obbligatorio;
- A.a. 2005-2006, primo semestre, corso di Laboratorio di Fisica 1-A del CS in Fisica (aiuto didattico), corso obbligatorio;
- A.a. 2004-2005, primo semestre, corso di Laboratorio di Fisica 1-A del CS in Fisica (aiuto didattico), corso obbligatorio.

- di essere stato responsabile delle seguenti **tesi e stage**:
  - Tesi di Laurea Triennale e Tirocini

    * relatore, insieme al dott. Fabio Ravera del DIFI, della Tesi di Laurea Triennale in Scienza dei Materiali della candidata Anna Marini dell'Università degli Studi di Genova dal titolo: "Misura delle performance del trasporto di calore della grafite pirolitica nel nuovo tracciatore a pixel di silicio del progetto CT-PPS dell'esperimento CMS".
    * relatore, insieme al dott. Enrico Robutti dell'INFN, della Tesi di Laurea Triennale in Scienza dei Materiali del candidato Andrea Costanzo dell'Università degli Studi di Genova dal titolo: "Studio delle proprietà dei dispositivi a semiconduttore per la rivelazione di particelle e del loro danneggiamento da radiazione".
    * relatore, insieme al dott. Enrico Robutti dell'INFN, della Tesi di Laurea Triennale in Scienza dei Materiali della candidata Chiara Pasolini dell'Università degli Studi di Genova dal titolo: "Determinazione delle caratteristiche di trasporto di calore di grafite pirolitica termica per il rivelatore a pixel di silicio dell'esperimento CMS".
    * relatore, insieme al dott. Enrico Robutti dell'INFN, della Tesi di Laurea Triennale in Scienza dei Materiali della candidata Alessia Falchi dell'Università degli Studi di Genova dal titolo: "Misure di proprietà di conduzione termica del substrato dei circuiti ibridi per il rivelatore a pixel di silicio dell'esperimento CMS".
    * relatore, insieme al dott. Enrico Robutti dell'INFN, della Tesi di Laurea Triennale in Scienza dei Materiali del candidato Marco Olivieri dell'Università degli Studi di Genova dal titolo: "Studio del danneggiamento da radiazione dei sensori al silicio per rivelatori di fisica delle alte energie".
    * tutore dello stage di livello Licence-3 dello studente Kenny Vilella del corso di Laurea in Fisica dell'Université Claude Bernard di Lione, con argomento lo studio di fattibilità a CMS di una analisi dati per la ricerca di segnature sperimentali di nuova fisica oltre il Modello Standard con 4 quark top nello stato finale.
    * tutore dello stage di livello Licence-2 dello studente Nassim Jaouani del corso di Laurea in Fisica dell'Université Claude Bernard di Lione, con argomento lo studio della produzione di coppie top-antitop nell'esperimento CMS.
    * tutore dell'attività di tirocinio curriculare dello studente Francesco Pellegrini del Corso di Laurea in Fisica dell'Università degli Studi di Genova, stage effettuato su misure di calibrazione della strumentazione e campagne osservative presso l'Osservatorio Astronomico del Parco dell'Antola.

– Tesi di Laurea Magistrale e Specialistica

    * relatore, insieme al prof. Nicola Maggiore del DIFI, della Tesi di Laurea Magistrale in Fisica del candidato Nicola Alchera dal titolo "Studio della misura della costante di Hubble con il metodo del ritardo temporale nell'osservazione di quasar sotto effetto lente gravitazionale"

    * relatore, insieme alla dott. Chiara Righi dell'Università dell'Insubria, della Tesi di Laurea Magistrale in Fisica del candidato Jacopo Montaruli dal titolo "Studio dell'emissione di getti da nuclei galattici attivi"
    * relatore, insieme al dr. Andrea La Camera del DIBRIS e al prof. Volker Beckmann dell'Université Paris VII, della Tesi di Laurea Magistrale in Fisica della candidata Anna Lucia de Marco, dal titolo "Evolution of super massive black holes as seen in the hard X-ray domain"
    * relatore, insieme al dr. Marco Landoni dell'Istituto Nazionale di Astrofisica e al dr. Andrea La Camera del DIBRIS, della Tesi di Laurea Magistrale in Fisica del candidato Lorenzo Cabona, dal titolo "Commissioning of the Antola Observatory. Determination of the performances of the spectrograph and a first scientific measurement: observation of exoplanet transits".
    * correlatore della Tesi di Laurea Magistrale in Fisica del candidato Tommaso Bontae dell'Università degli Studi di Genova; titolo della tesi: "Ottimizzazione delle particelle altamente ionizzanti nel rilevatore a pixel di ATLAS".
    * correlatore della Tesi di Laurea Magistrale in Fisica del candidato Alessandro Lapertosa dell'Università degli Studi di Genova; titolo della tesi: "Calibrazione del b-tagging su campioni di jet con charm per l'esperimento ATLAS".
    * relatore, insieme al dr. Marco Landoni dell'Istituto Nazionale di Astrofisica e al dr. Andrea La Camera del DIBRIS, della Tesi di Laurea Magistrale in Fisica della candidata Chiara Righi, dal titolo "Photometric variability of weak emission line quasars. A tool for understanding the actual nature of the source: blazar or QSO? From instrument calibrations to science".
    * relatore della Tesi di Laurea Specialistica in Fisica della candidata Elisa Guido dell'Università degli Studi di Genova; titolo della tesi: "Studio dell'universalità leptonica nei decadimenti del bottomonio".

  – Tesi di Dottorato di Ricerca

    * *rapporteur* della Tesi di Dottorato in Fisica della candidata Camille Beluffi dell'Université Catholique de Louvain, Belgio; titolo della tesi: "Search for rare processes with a Z+bb signature at the LHC, using the Matrix Element Method".
    * *rapporteur* della Tesi di Dottorato in Fisica del candidato Nicolas Beaupère dell'Université Claude Bernard di Lione; titolo della tesi: "Etude du système de déclenchement électronique pour le projet sLHC et recherche de nouvelle physique dans le spectre de masse invariante top anti-top au sein de l'expérience CMS du LHC".

- di avere svolto le seguenti **altre attività didattiche**

  – lezioni nell'ambito dei corsi della Scuola di Scienze M.F.N. per l'Università della Terza Età a partire dall'a.a. 2016-17;

- tutorato didattico agli studenti del primo anno del corso di Laurea in Fisica durante il periodo del Dottorato di Ricerca;

- di ricoprire i seguenti ruoli accademici e attività accademico-istituzionale di servizio
  - **membro del Collegio della Scuola di Dottorato di Ricerca in Fisica** dell'Università degli Studi di Genova a partire dal 2013;
  - **referee per la rivista scientifica internazionale** Journal of High Energy Physics dal 2015;
  - **membro della Giunta del DIFI** per il triennio 2015-2018;
  - **membro della Commissione Ricerca del DIFI** per il triennio 2015-2018;
  - **referente per la Scuola di Scienze M.F.N. per l'Università della Terza Età** per il triennio 2016-2019 con la responsabilità dell'organizzazione dell'anno accademico su tutte le discipline scientifiche;
  - **membro della Commissione Divulgazione** della Scuola di Scienze M.F.N. a partire dal 2017;
  - responsabile del settore di fisica sperimentale delle interazioni fondamentali e degli eventi per le scuole secondarie per la **nuova pagina web del DIFI** e redazione e responsabilità della versione in lingua francese;
  - redattore del **documento di costituzione del nuovo centro inter-dipartimentale dell'Università di Genova per studi di astronomia**, denominato ORSA;
  - **revisore CINECA per progetti PRIN e FIRB** nell'anno 2013;
  - **revisore CINECA per progetti PRIN** nell'anno 2016;
  - **revisore CINECA per la VQR** nell'anno 2016;
  - membro della commissione per il **tutorato in itinere** agli studenti del CS di Scienza dei Materiali e referente per il CS di Scienza dei Materiali per i **progetti contro gli abbandoni** degli studenti;
  - referente per il DIFI per i **test di ingresso delle nuove matricole** e gli studenti con obblighi formativi aggiuntivi a partire dal 2016;
  - membro della **Commissione AQ** per l'autocertificazione e assicurazione della qualità della didattica del CS di Fisica, a partire dal 2015.

- di avere svolto la seguente **attività di divulgazione e orientamento**

- seminario divulgativo su "Evidenze in astrofisica della teoria della relatività" nell'ambito di un ciclo di seminari organizzati dall'associazione di astrofili Il Sestante di Sestri Levante;
- referente per il DIFI per l'**alternanza scuola-lavoro** degli studenti di scuola secondaria superiore a partire dal 2016;
- co-organizzazione, unitamente ai prof.i Gianangelo Bracco del DIFI e Niccolò Casiddu del Dipartimento di Scienze per l'Architettura, di 12 seminari divulgativi per l'**Anno Internazionale della Luce 2015** e presentazione di un seminario divulgativo di fisica delle particelle elementari in questo ambito;
- **responsabile della linea "stage" presso il Dipartimento di Fisica** dell'Università degli studi di Genova nell'ambito del Piano Nazionale Lauree Scientifiche, a partire dal 2013; l'iniziativa coinvolge circa 120 studenti di scuole secondarie ogni anno;
- **co-organizzazione delle CERN masterclass** presso il DIFI, a partire dal 2014, iniziativa con cui accogliamo circa 150 studenti di scuole secondarie ogni anno;
- partecipazione al salone ABCD-Orientamento e alle Open Week per l'orientamento ai Corsi di Studi in Fisica e Scienza dei Materiali a partire dal 2014;
- membro della **commissione orientamento del Corso di Studi in Scienza dei Materiali** dell'Università degli studi di Genova da novembre 2014;
- promozione dell'Osservatorio Astronomico Regionale del Parco dell'Antola a partire dal 2014;
- partecipazione all'organizzazione e realizzazione della **CERN masterclass** del 2011 presso l'Istituto di Fisica Nucleare di Lione;
- **incontro con studenti di liceo francesi** nell'ambito della conferenza Hadron Collider Physics Symposium (HCP2009), 16-20/11/2009, Evian, Francia;
- **incontri con studenti di scuole superiori liguri** nell'ambito delle iniziative di fisica delle particelle sperimentale legate al Progetto Lauree Scientifiche presso il DIFI dell'Università degli studi di Genova nel 2005.

Dichiara inoltre di essere firmatario di tutte le seguenti pubblicazioni

1. V. Khachatryan *et al.* [CMS Collaboration], "Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV," Phys. Rev. D **94**, no. 11, 112004 (2016) doi:10.1103/PhysRevD.94.112004 [arXiv:1609.08382 [hep-ex]].

2. V. Khachatryan *et al.* [CMS Collaboration], "Studies of inclusive four-jet production with two *b*-tagged jets in proton-proton collisions at 7 TeV," Phys. Rev. D **94**, no. 11, 112005 (2016) doi:10.1103/PhysRevD.94.112005 [arXiv:1609.03489 [hep-ex]].

3. V. Khachatryan *et al.* [CMS Collaboration], "Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s_{\mathrm{N\,N}}}$ = 2.76 TeV," JHEP **1611**, 055 (2016) doi:10.1007/JHEP11(2016)055 [arXiv:1609.02466 [nucl-ex]].

4. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of the ZZ production cross section and $\mathrm{Z} \to \ell^+\ell^-\ell'^+\ell'^-$ branching fraction in pp collisions at $\sqrt{s}$=13 TeV," Phys. Lett. B **763**, 280 (2016) doi:10.1016/j.physletb.2016.10.054 [arXiv:1607.08834 [hep-ex]].

5. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s} = 8$ TeV," JHEP **1611**, 147 (2016) doi:10.1007/JHEP11(2016)147 [arXiv:1607.06975 [hep-ex]].

6. V. Khachatryan *et al.* [CMS Collaboration], "Search for lepton flavour violating decays of the Higgs boson to $e\tau$ and $e\mu$ in proton proton collisions at $\sqrt{s} = 8$ TeV," Phys. Lett. B **763**, 472 (2016) doi:10.1016/j.physletb.2016.09.062 [arXiv:1607.03561 [hep-ex]].

7. V. Khachatryan *et al.* [CMS Collaboration], "Observation of the decay $B^+ \to \psi(2S)\phi(1020)K^+$ in pp collisions at $\sqrt{s} = 8$ TeV," Phys. Lett. B **764**, 66 (2017) doi:10.1016/j.physletb.2016.11.001 [arXiv:1607.02638 [hep-ex]].

8. V. Khachatryan *et al.* [CMS Collaboration], "Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s} = 13$ TeV," JHEP **1612**, 013 (2016) doi:10.1007/JHEP12(2016)013 [arXiv:1607.00915 [hep-ex]].

9. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s}$=7 and 8 TeV," Phys. Rev. D **94**, no. 5, 052006 (2016) doi:10.1103/PhysRevD.94.052006 [arXiv:1607.00837 [hep-ex]].

10. V. Khachatryan *et al.* [CMS Collaboration], "Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s}$ =8 and 13 TeV," Phys. Rev. Lett. **117**, no. 5, 051802 (2016) doi:10.1103/PhysRevLett.117.051802 [arXiv:1606.04093 [hep-ex]].

11. V. Khachatryan *et al.* [CMS Collaboration], "Phenomenological MSSM interpretation of CMS searches in pp collisions at sqrt(s) = 7 and 8 TeV," JHEP **1610**, 129 (2016) doi:10.1007/JHEP10(2016)129 [arXiv:1606.03577 [hep-ex]].

12. G. Aad *et al.* [ATLAS and CMS Collaborations], "Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $\sqrt{s} = 7$ and 8 TeV," JHEP **1608**, 045 (2016) doi:10.1007/JHEP08(2016)045 [arXiv:1606.02266 [hep-ex]].

13. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton + jets final states produced in pp collisions at $\sqrt{s} = 8$TeV," Phys. Lett. B **762**, 512 (2016) doi:10.1016/j.physletb.2016.10.007 [arXiv:1605.09047 [hep-ex]].

14. V. Khachatryan *et al.* [CMS Collaboration], "Search for supersymmetry in pp collisions at $\sqrt{s} = 13$ TeV in the single-lepton final state using the sum of masses of large-radius jets," JHEP **1608**, 122 (2016) doi:10.1007/JHEP08(2016)122 [arXiv:1605.04608 [hep-ex]].

15. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of the double-differential inclusive jet cross section in protonproton collisions at $\sqrt{s} = 13\,\text{TeV}$," Eur. Phys. J. C **76**, no. 8, 451 (2016) doi:10.1140/epjc/s10052-016-4286-3 [arXiv:1605.04436 [hep-ex]].

16. V. Khachatryan *et al.* [CMS Collaboration], "Search for new physics in same-sign dilepton events in protonproton collisions at $\sqrt{s} = 13\,\text{TeV}$," Eur. Phys. J. C **76**, no. 8, 439 (2016) doi:10.1140/epjc/s10052-016-4261-z [arXiv:1605.03171 [hep-ex]].

17. V. Khachatryan *et al.* [CMS Collaboration], "Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width," JHEP **1609**, 051 (2016) doi:10.1007/JHEP09(2016)051 [arXiv:1605.02329 [hep-ex]].

18. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of the integrated and differential $t\bar{t}$ production cross sections for high-p_t top quarks in pp collisions at $\sqrt{s} =$ 8 TeV," Phys. Rev. D **94**, no. 7, 072002 (2016) doi:10.1103/PhysRevD.94.072002 [arXiv:1605.00116 [hep-ex]].

19. V. Khachatryan *et al.* [CMS Collaboration], "Search for narrow resonances in dijet final states at $\sqrt{(s)} = 8$ TeV with the novel CMS technique of data scouting," Phys. Rev. Lett. **117**, no. 3, 031802 (2016) doi:10.1103/PhysRevLett.117.031802 [arXiv:1604.08907 [hep-ex]].

20. V. Khachatryan *et al.* [CMS Collaboration], "Search for lepton flavour violating decays of heavy resonances and quantum black holes to an eμ pair in proton-proton collisions at $\sqrt{s} = 8$ TeV," Eur. Phys. J. C **76**, no. 6, 317 (2016) doi:10.1140/epjc/s10052-016-4149-y [arXiv:1604.05239 [hep-ex]].

21. V. Khachatryan *et al.* [CMS Collaboration], "Evidence for exclusive $\gamma\gamma \to W^+W^-$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV," JHEP **1608**, 119 (2016) doi:10.1007/JHEP08(2016)119 [arXiv:1604.04464 [hep-ex]].

22. V. Khachatryan *et al.* [CMS Collaboration], "Search for two Higgs bosons in final states containing two photons and two bottom quarks in proton-proton collisions at 8 TeV," Phys. Rev. D **94**, no. 5, 052012 (2016) doi:10.1103/PhysRevD.94.052012 [arXiv:1603.06896 [hep-ex]].

23. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of the top quark mass using charged particles in pp collisions at $\sqrt{s} = 8$ TeV," Phys. Rev. D **93**, no. 9, 092006 (2016) doi:10.1103/PhysRevD.93.092006 [arXiv:1603.06536 [hep-ex]].

24. V. Khachatryan *et al.* [CMS Collaboration], "Measurements of $t\bar{t}$ charge asymmetry using dilepton final states in pp collisions at $\sqrt{s} = 8$ TeV," Phys. Lett. B **760**, 365 (2016) doi:10.1016/j.physletb.2016.07.006 [arXiv:1603.06221 [hep-ex]].

25. V. Khachatryan *et al.* [CMS Collaboration], "Search for new physics with the M_{T2} variable in all-jets final states produced in pp collisions at $\sqrt{s} = 13$ TeV," JHEP **1610**, 006 (2016) doi:10.1007/JHEP10(2016)006 [arXiv:1603.04053 [hep-ex]].

26. V. Khachatryan *et al.* [CMS Collaboration], "Search for neutral resonances decaying into a Z boson and a pair of b jets or tau leptons," Phys. Lett. B **759**, 369 (2016) doi:10.1016/j.physletb.2016.05.087 [arXiv:1603.02991 [hep-ex]].

27. V. Khachatryan *et al.* [CMS Collaboration], "Υ(nS) polarizations versus particle multiplicity in pp collisions at $\sqrt{s} = 7$ TeV," Phys. Lett. B **761**, 31 (2016) doi:10.1016/j.physletb.2016.07.065 [arXiv:1603.02913 [hep-ex]].

28. V. Khachatryan *et al.* [CMS Collaboration], "Search for s channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV," JHEP **1609**, 027 (2016) doi:10.1007/JHEP09(2016)027 [arXiv:1603.02555 [hep-ex]].

29. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of the t-tbar production cross section in the e-mu channel in proton-proton collisions at sqrt(s) = 7 and 8 TeV," JHEP **1608**, 029 (2016) doi:10.1007/JHEP08(2016)029 [arXiv:1603.02303 [hep-ex]].

30. V. Khachatryan *et al.* [CMS Collaboration], "Search for heavy Majorana neutrinos in ee+ jets and e μ+ jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV," JHEP **1604**, 169 (2016) doi:10.1007/JHEP04(2016)169 [arXiv:1603.02248 [hep-ex]].

31. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of the differential cross section and charge asymmetry for inclusive pp $\to W^{\pm} + X$ production at $\sqrt{s} = 8$ TeV," Eur. Phys. J. C **76**, no. 8, 469 (2016) doi:10.1140/epjc/s10052-016-4293-4 [arXiv:1603.01803 [hep-ex]].

32. V. Khachatryan *et al.* [CMS Collaboration], "Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s} =$ 8 TeV," Eur. Phys. J. C **76**, no. 8, 460 (2016) doi:10.1140/epjc/s10052-016-4292-5 [arXiv:1603.00765 [hep-ex]].

33. V. Khachatryan *et al.* [CMS Collaboration], "Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at sqrt(s) = 8 TeV," Phys. Lett. B **759**, 479 (2016) doi:10.1016/j.physletb.2016.05.088 [arXiv:1602.08772 [hep-ex]].

34. V. Khachatryan *et al.* [CMS Collaboration], "Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks," Eur. Phys. J. C **76**, no. 7, 371 (2016) doi:10.1140/epjc/s10052-016-4206-6 [arXiv:1602.08762 [hep-ex]].

35. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of the $Z\gamma \to \nu\bar{\nu}\gamma$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ trilinear gauge boson couplings," Phys. Lett. B **760**, 448 (2016) doi:10.1016/j.physletb.2016.06.080 [arXiv:1602.07152 [hep-ex]].

36. V. Khachatryan *et al.* [CMS Collaboration], "Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV," Phys. Lett. B **758**, 152 (2016) doi:10.1016/j.physletb.2016.05.002 [arXiv:1602.06581 [hep-ex]].

37. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s} = 8\,\text{TeV}$," Eur. Phys. J. C **76**, no. 10, 536 (2016) doi:10.1140/epjc/s10052-016-4346-8 [arXiv:1602.04384 [hep-ex]].

38. V. Khachatryan *et al.* [CMS Collaboration], "Search for R-parity violating decays of a top squark in proton-proton collisions at $\sqrt{s} = 8$ TeV," Phys. Lett. B **760**, 178 (2016) doi:10.1016/j.physletb.2016.06.039 [arXiv:1602.04334 [hep-ex]].

39. V. Khachatryan *et al.* [CMS Collaboration], "Combined search for anomalous pseudoscalar HVV couplings in VH(H $\to b\bar{b}$) production and H $\to$ VV decay," Phys. Lett. B **759**, 672 (2016) doi:10.1016/j.physletb.2016.06.004 [arXiv:1602.04305 [hep-ex]].

40. V. Khachatryan *et al.* [CMS Collaboration], "Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s} = 8$ TeV," JHEP **1607**, 027 (2016) Erratum: [JHEP **1609**, 056 (2016)] doi:10.1007/JHEP07(2016)027, 10.1007/JHEP09(2016)056 [arXiv:1602.03169 [hep-ex]].

41. V. Khachatryan *et al.* [CMS Collaboration], "Search for supersymmetry in pp collisions at sqrt(s) = 8 TeV in final states with boosted W bosons and b jets using razor variables," Phys. Rev. D **93**, no. 9, 092009 (2016) doi:10.1103/PhysRevD.93.092009 [arXiv:1602.02917 [hep-ex]].

42. V. Khachatryan *et al.* [CMS Collaboration], "Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s} = 7$ TeV," JHEP **1608**, 139 (2016) doi:10.1007/JHEP08(2016)139 [arXiv:1601.06713 [hep-ex]].

43. V. Khachatryan *et al.* [CMS Collaboration], "Search for massive WH resonances decaying into the $\ell\nu\mathrm{b\bar{b}}$ final state at $\sqrt{s} = 8$ TeV," Eur. Phys. J. C **76**, no. 5, 237 (2016) doi:10.1140/epjc/s10052-016-4067-z [arXiv:1601.06431 [hep-ex]].

44. V. Khachatryan *et al.* [CMS Collaboration], "Forwardbackward asymmetry of DrellYan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV," Eur. Phys. J. C **76**, no. 6, 325 (2016) doi:10.1140/epjc/s10052-016-4156-z [arXiv:1601.04768 [hep-ex]].

45. V. Khachatryan *et al.* [CMS Collaboration], "Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV," Eur. Phys. J. C **76**, no. 7, 372 (2016) doi:10.1140/epjc/s10052-016-4205-7 [arXiv:1601.02001 [nucl-ex]].

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Il sottoscritto dichiara inoltre di essere informato, ai sensi e per gli effetti di cui all'art. 13 del D. Leg.vo 30.6.2003, n.196, che i dati personali raccolti sono trattati dall'Università degli Studi di Genova ai sensi dei Regolamenti in materia, di cui ai DD.R.R. nn. 198 dell'11.7.2001 e 165 del 12.4.2006.

Luogo e data ____**Genova, 6/4/2017**___Il dichiarante_____

CURRICULUM VITAE
Laura Opisso

- Diplomata nell'anno scolastico 1978/79 presso il Liceo Linguistico Grazia Deledda di Genova;

- Dal Gennaio 1984 impiego presso una ditta di prodotti diagnostici (Medical Systems S.p.A. di Genova), fino all'Ottobre del 1986. Le mansioni erano di contatti con ditte straniere e in generale segretaria del Direttore Marketing.

- Assunta nell'Ottobre 1986 dall'I.N.F.N. di Genova come Segretaria Scientifica.

Elenco di seguito le mansioni che ho avuto dall'inizio:

- Lavori scientifici in word, TeX e LaTeX: stesura, editing, pubblicazioni, rapporti con case editrici; spedizioni via rete, ecc.
- Corrispondenza per i ricercatori della Sezione: battitura lettere, fax, e-mail. Archivio.
- Fino al 1999. Posta in partenza: protocollo e archivio posta ricercatori; affrancatura e spedizione posta direzione e scientifica; spedizioni a mezzo corriere per le segreterie scientifica e di direzione; contabilita' affrancatrice.
- Organizzazione Conferenze e Meeting: inviti, sistemazioni logistiche, riunioni comitati organizzatori, prenotazioni hotel, corrispondenza varia, poster, raccolta proceedings per casa editrice, assistenza sul posto, creazione delle pagine web relative, creazione dei database per le iscrizioni, pubblicazione su web dei talk, ecc...
- Seminari: inviti, diffusione, sistemazione ospiti, prenotazione aule, pagina web, ecc.
- Assistenza e sistemazione in hotel o appartamenti degli ospiti italiani e stranieri che vengono presso la nostra Sezione per lavori di collaborazione o per tenere dei seminari.
- Aggiornamento distribution lists relative a Conferenze e Meeting o spedizioni di preprints.
- Creazione e gestione pagine web. Nel 1998 ho creato la pagina web relativa alla Segreteria Scientifica che tengo periodicamente aggiornata e che e' costituita principalmente da pagine web tutte create da me. Ho creato ed aggiornato fino al 2003 la pagina web della IV Commissione (il Presidente, Prof. Becchi, e' di Genova).
- Conferenze, Borse di Studio, Scuole: diffusione in bacheche, via e-mail, su pagine web. Archivio. Fotocopiatura agli interessati.
- Nel 1989 il Prof.Mario Bertero ha richiesto al Direttore di Sezione la mia collaborazione. Sono stata dal I Gennaio 1990 al 31 Dicembre 1994 segretaria dell'Honorary Editor della Rivista "Inverse Problems" di Bristol (Inghilterra);
- Dall'1 Giugno 1994 mi e' stata affidata l'attivita' di segreteria ai coordinatori nei loro compiti istituzionali: comunicazioni ai gruppi, eventuali prenotazioni viaggi e hotel per riunioni.

- Pratiche relative alle visite mediche per rischio generico e protezione dalle radiazioni ionizzanti per il personale dipendente riceratore e tecnico amministrativo della Sezione (dal 1995 al 1999).
- Sono stata a disposizione del responsabile dell'esperimento DELPHI per Genova per qualsiasi lavoro di segreteria ed archivio. Contact office presso l'INFN di Genova.
- Sono stata a disposizione del Prof.G.Ricco, in quanto membro NUPECC, per qualsiasi lavoro di segreteria. Allego lettera del Prof.Giovanni Ricco.
- Segreteria Presidente IV Commissione fino al 2003.
- Segreteria di commissione concorsi e selezioni

- Dall'aprile 2003 sono stata nominata Responsabile del Servizio di Direzione.

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Studi Diploma di laurea in "Lingue e letterature straniere" (francese) conseguito presso l'Università degli Studi di Pisa, A. A. 1987/88. Votazione 110/110 e lode.

Specializzazioni

1988 Corso di specializzazione per organizzatori congressuali promosso dalla FERPI (Federazione Italiana Relazioni Pubbliche).

1998 Corso di formazione su "Reti ed applicazioni di reti: World Wide Web" organizzato dall'Istituto Nazionale di Fisica Nucleare.

1998 Corso di formazione su "Programmazione e linguaggi: Office Automation" organizzato dall'Istituto Nazionale di Fisica Nucleare.

2001 Corso di formazione su "I finanziamenti e gli incentivi europei, nazionali e locali" e "La preparazione e la gestione dei progetti", organizzato dalla FAST - Federazione delle Associazioni Scientifiche e Tecniche

2001 Corso "FrontPage 2000 Development" organizzato da Mondadori Informatica Education.

2004 Corso "Gli aspetti amministrativi e contabili del VI programma quadro U. E."

2005 Corso "Organizzazione di convegni e congressi" organizzato da LUISS Management.

Esperienze lavorative

dicembre 1987 - maggio 1991
Tre Emme Congressi srl, Pisa – Servizi congressuali
Contratti di collaborazione libero professionale
attività svolta: gestione archivio partecipanti - sistemazione alberghiera - corrispondenza - traduzioni - contatti con fornitori e clienti – hostess.

ottobre 1988 - gennaio 1989
Università di Pisa – Istituto di Linguistica Computazionale (ILC)
Contratto di collaborazione libero professionale a tempo definito
attività svolta: catalogazione dei documenti della biblioteca dell'Istituto.

ottobre 1989 - ottobre 1992
Scuola Superiore S. Anna di Pisa - Laboratorio di Robotica (ARTS Lab)
Contratti di collaborazione libero professionale con mansioni di segretaria scientifica
attività svolta: gestione dei fondi di ricerca (MURST e CNR) – corrispondenza - gestione contratti della Comunità europea – organizzazione meeting e mostre - accoglienza ospiti stranieri.

novembre 1992 - gennaio 1994
S. M. Scienzia Machinale srl, Pisa - Progettazione di *devices* di robotica
Impiegata con mansioni di segretaria amministrativa
attività svolta: corrispondenza – creazione e gestione archivi – fatturazione - prima nota - contatti con fornitori e clienti.

febbraio 1994 - presente
Istituto Nazionale di Fisica Nucleare - Sezione di Pisa
Funzionario di amministrazione (da dicembre 2004) con mansioni di segreteria scientifica e di direzione
attività svolta: responsabile dell'organizzazione di congressi nazionali ed internazionali (dalla definizione del budget fino alla stampa dei proceedings) – gestione dei contratti della Comunità europea – coordinamento delle attivà di divulgazione scientifica dell'ente (seminari, mostre, programmi di scambio per gli studenti) – stesura dei preventivi finanziari degli esperimenti.

uso del computer Apple Macintosh, PC. Uso di programmi di Microsoft Office (Access, Word, Excel, Power Point, OutLook), di programmi di *data-base* (File Maker), di programmi di creazione di pagine web (FrontPage).

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