

## Curriculum scientifico di Pietro Corvisiero

Laureato in Fisica a Genova nel 1971, ha svolto la maggior parte della sua attività scientifica nell'ambito dei programmi di ricerca dell'I.N.F.N. (Istituto Nazionale di Fisica Nucleare).

Ha lavorato presso i Laboratori Nazionali di Frascati ed i Laboratori Nazionali di Legnaro. Ha svolto per parecchi anni attività di ricerca presso l'acceleratore CEBAF del laboratorio TJNAF (Virginia, USA) dove viene studiata la struttura del nucleone mediante sonde elettromagnetiche (elettroni e fotoni di energia fino a 12 GeV) e presso l'elettrosincrotrone ESRF di Grenoble (Francia). Presso Jefferson Laboratory è stato spokesperson di un esperimento con fotoni reali su Elio-3. Presso l'ESRF ha partecipato alla realizzazione del fascio di fotoni monocromatici con energia dell'ordine del GeV ottenuti per effetto Compton di un fascio di luce laser sugli elettroni circolanti nell'anello.

La sua attività sperimentale si è comunque concentrata, specie negli ultimi anni, sulla Astrofisica Nucleare. È stato per parecchi anni responsabile e spokesperson internazionale dell'esperimento LUNA (Laboratory for Underground Nuclear Astrophysics) presso i Laboratori sotterranei del Gran Sasso, dove dal 1991 ha coordinato la nascita e lo sviluppo dell'unico laboratorio sotterraneo tutt'oggi esistente al mondo per misure di astrofisica nucleare. Esso è dotato di due acceleratori per ioni leggeri di energia massima rispettivamente 50 e 400 keV, utilizzati per la misura diretta delle più importanti reazioni nucleari della catena pp e del ciclo CNO, responsabili della produzione di energia delle stelle e mai misurate prima. La linea di ricerca ha fornito fino ad oggi una serie di risultati completamente originali e di elevatissimo valore scientifico. Mediante tali acceleratori sono state per la prima (e a tutt'oggi: unica) volta misurate in maniera diretta le sezioni d'urto delle più importanti reazioni della catena pp e del ciclo CNO alle energie di interesse astrofisico (picco di Gamow):  ${}^3\text{He}({}^3\text{He}, 2p){}^4\text{He}$ ,  $\text{D}(p, \gamma){}^3\text{He}$ ,  ${}^4\text{He}({}^3\text{He}, \gamma){}^7\text{Be}$ ,  ${}^{14}\text{N}(p, \gamma){}^{15}\text{O}$  e molte altre legate all'evoluzione stellare successiva alla fase di equilibrio nella Sequenza Principale. Attualmente, sempre presso i Laboratori Nazionali del Gran Sasso, sta partecipando alla misura della sezione d'urto della reazione  $\text{D}(p, \gamma){}^3\text{He}$  ad energie tipiche dei primi istanti del BigBang, quando ha avuto luogo la nucleosintesi degli elementi leggeri. I risultati di questa misura di precisione appena conclusa, oltre che per la Fisica

nucleare Teorica e per l'Astrofisica,, hanno importanti implicazioni cosmologiche.

Ha svolto in passato anche svariate ricerche nel campo della Fisica Medica ed è esperto qualificato di terzo grado per il controllo delle radiazioni e la radioprotezione dei lavoratori e degli ambienti di lavoro.

È autore di circa 300 pubblicazioni su riviste internazionali e di molte relazioni su invito a conferenze nazionali ed internazionali.

Dal 2001 al 2007 è stato Direttore della Sezione di Genova dell'Istituto Nazionale di Fisica nucleare (I.N.F.N.).

È stato direttore della Scuola di Specializzazione in Fisica Medica dell'Università di Genova.

È stato docente ufficiale di molti insegnamenti del corso di laurea in Fisica, del corso di laurea in Chimica, del Dottorato di Ricerca in Fisica, della Scuola di Specializzazione in Fisica Medica, nonché relatore di svariate tesi di laurea e di dottorato di ricerca.

In particolare ha tenuto con continuità in passato per circa venticinque anni, e tiene tutt'ora, il corso di Fisica Generale per Chimica.

Genova, 26 Giugno 2019



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(Pietro Corvisiero)



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