

Titolo del progetto:	The Advanced GAMMA Tracking Array AGATA at LNL	
Laboratorio ospitante	LNL-Laboratori Nazionali di Legnaro	
Contatto person presso il laboratorio	Jose Javier Valiente Dobon (valiente@lnl.infn.it) Rosa Perez Vidal (Rosa.Maria.Perez.Vidal@lnl.infn.it)	
Periodo previsto:	From January to December 2022	
Descrizione attività (max 1000 caratteri)	<p>The Advanced GAMMA Tracking Array (AGATA) is the next generation of gamma-ray spectroscopy instruments and involves achieving the goal of a 4p Ge ball through the technique of gamma-ray energy tracking in electrically segmented Ge detectors. From the second half of 2021, the European AGATA spectrometer will be installed at the National Laboratories of Legnaro (LNL) and we expect the commissioning of AGATA in combination with PRISMA to happen in the first quarter of 2022.</p> <p>The student will be involved in the commission and characterisation of the AGATA spectrometer at LNL. The student will contribute to the analysis and preparation of the sorting stages of AGATA. In the local level processing, that handles the crystals separately for the PSA task, the energy and time calibrations together with the important corrections for an improved energy and position resolutions (such as cross-talk corrections and neutron-damage corrections) will be carried out. In the global level processing, where the tracking is performed, the relevant parameters for the best performance will be optimized.</p>	
Altre indicazioni: (max 500 caratteri)		
Numero massimo di partecipanti ammessi	2	
Il laboratorio ospitante mette a disposizione	Foresteria a uso gratuito	Si
	Servizio mensa a uso gratuito o buoni pasto	Si
Note:	L'esperienza svolta presso il laboratorio ospitante può essere parte integrante della attività richiesta per un progetto di tesi triennale	