

Titolo del progetto:	Magnetized plasmas: from ion sources to stellar environments	
Laboratorio ospitante	INFN-LNL	
Contatc person presso il laboratorio	Alessio Galatà (alessio.galata@lnl.infn.it)	
Periodo previsto:	Luglio/Agosto 2023	
Sezioni e tutor proponenti :	Alessio Galatà	
Descrizione attività (max 1000 caratteri)	<p>Magnetized plasmas are nowadays employed in different research fields, from accelerator physics to nuclear astrophysics. Their dynamics relies on several process involving different branches of physics: atomic physics, electromagnetism, fluids' mechanics. They found important applications as ion sources for accelerator and, recently, as tools to reproduce stellar-like conditions and carry out experiments of interest for nuclear astrophysics. During the stage the student will learn basics of:</p> <ul style="list-style-type: none"> -Plasma physics and magnetic trapping. -The numerical approaches used to simulate and described the magnetized plasmas. -The mechanisms of ions 'generation and extraction and their relation to possible measurements of beta-decay rates of interest for PANDORA. 	
Numero massimo di partecipanti ammessi	1	
Il laboratorio ospitante mette a disposizione	Foresteria a uso gratuito	
	Servizio mensa a uso gratuito o buoni pasto	
Note:		