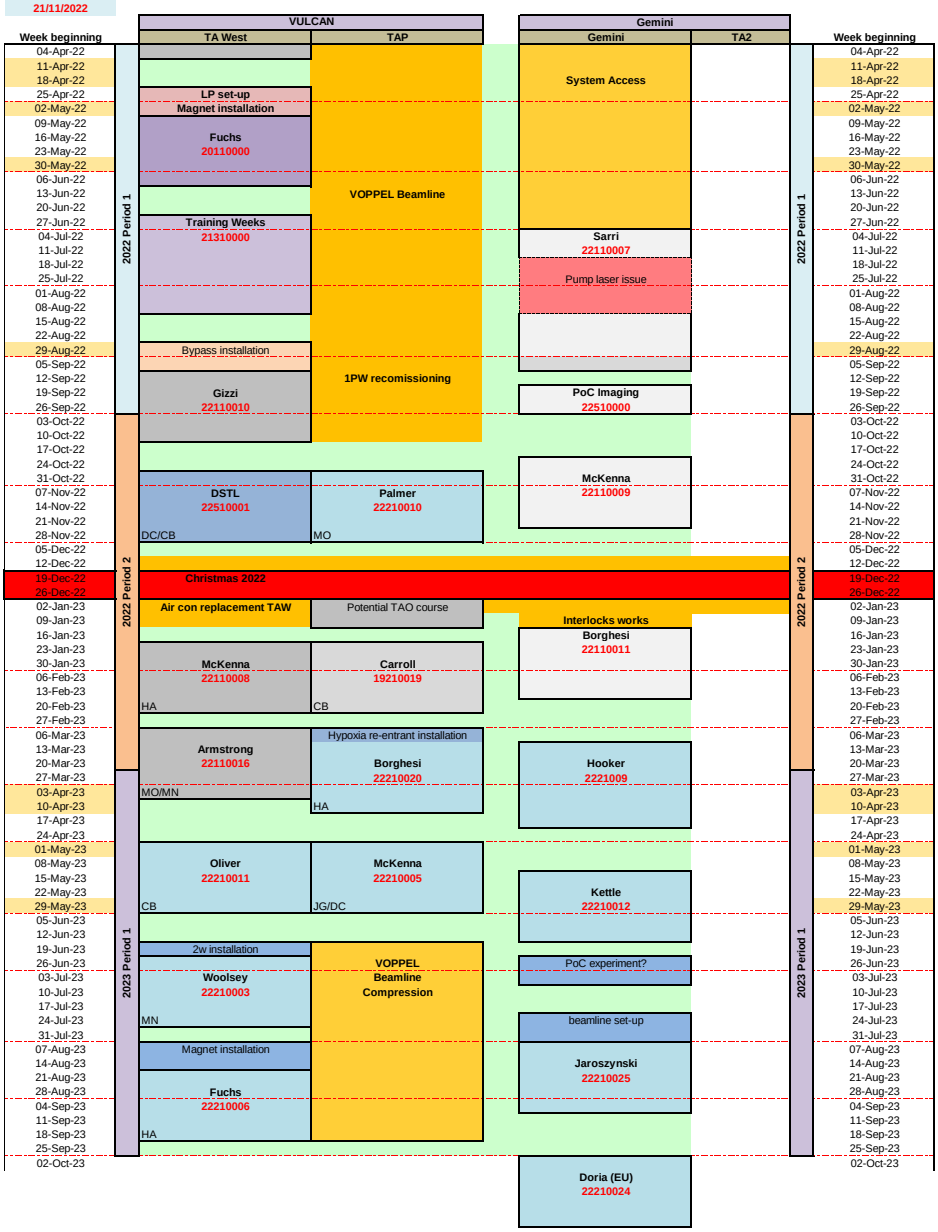
HPL Issue 27
21/11/2022

HPL Schedule



	App Number	Principal Investigator	Title
Vulcan	20110000	Fuchs J	Investigation of the ion streaming instability in the laboratory and of the associated energy transfer to the background plasma
	22110008	McKenna P	Measuring the role of anisotropic heating and plasma expansion on relativistic self-induced
	22110010	Gizzi L	Impact of Laser Bandwidth on Laser-Plasma Interaction in Shock Ignition Relevant Conditi
	22110016	Armstrong C	Direct Laser Acceleration of Electrons to Superponderomotive Energies
	19210019	Carroll D	Investigation of EMP emissions for understanding the source mechanisms and the rules for tuning and employing them in high power lasers
	22210003	Woolsey N	Characterisation of stimulated Raman sidescattering and its competition with backscattering in the context of Direct Drive Laser Fusion
	22210006	Fuchs J	Investigating particle acceleration dynamics in interpenetrating magnetized collisionless super-critical shocks
	22210005	McKenna P	Non-linear Compton scattering from intense laser pulse interactions with near-critical-density plasma
	22210020	Borghesi M	Ultra-high dose rate effects in cellular response to proton irradiation
	22210010	Palmer C	Energetic proton beam collimation in long scale length plasmas
	22210011	Oliver M	Direct Imaging of the Inelastic Response of Silicon to Shock Compression
Gemini & TA2	22110007	Sarri G	High-dose femtosecond-scale gamma-ray beams for radiobiological applications
	22110011	Borghesi M	Proton acceleration via surface wave excitation at parallel and grazing incidence
	22110009	McKenna P	Skin depth restricted electron temperature scaling guided by a surrogate machine learning-driven model
	22210009	Hooker S	Resonant Down-ramp Injection in Multi-Pulse Laser Wakefield Accelerators
	22210012	Kettle B	Ultrafast absorption spectroscopy of warm dense matter: measuring electron-ion equilibration rates
	22210025	Jaroszynski D	Creation and application of one- and two- dimensional plasma photonic structures
	22210024	Doria D	Ion acceleration from ultra-thin foils by employing Laguerre-Gaussian laser beams