



# MLZ User Meeting 2023

## Monday, 4 December 2023

### Positrons: e+ I (13:00 - 14:30)

time	[id] title	presenter
13:00	[177] Welcome by Science Group	
13:05	[116] First operation of APEX-LD, a levitated dipole trap designed for e+e- plasmas	CARD, Alexander
13:40	[83] Positron beam tomography using fast Faraday cup detectors	GUATIERI, Francesco
14:05	[102] Commissioning gamma detector array by imaging evolution of a pulse of $>10^4$ positrons in a dipole trap: efficient injection, toroidal homogenization, and radial diffusion to the wall	VON DER LINDEN, Jens

### Positrons: e+ II (15:00 - 16:40)

time	[id] title	presenter
15:00	[3] Proton Beam Based Production of a Positron Emitter by Exploiting the $^{27}\text{Al}(p,x)^{22}\text{Na}$ Reaction	KRUG, Lisa-Marie
15:25	[41] Positron trapping and annihilation in grain boundaries of $\mu\text{m}$ and sub- $\mu\text{m}$ grained polycrystalline materials	Mr BRUNNER, Philipp
15:50	[71] Vacancy Defects in Photovoltaic Antimony Selenide	KEEBLE, David
16:15	[31] Correlation of Mechanical Stress and the Positron Lifetime in Aluminum Alloys	MATHES, Lucian

### Positrons: e+ III (17:10 - 18:00)

time	[id] title	presenter
17:10	[53] Sodium Source Based Measurements at the CDBS in Between Reactor Cycles	CHRYSSOS, Leon
17:35	[20] Spatially Resolved and Element-Sensitive Defect Analysis with Positrons	HUGENSCHMIDT, Christoph