

Leon Chryssos

Heinz Maier-Leibnitz Zentrum Tel +49.89.289.54844
Lichtenbergstr. 1 leon.chryssos@frm2.tum.de
85748 Garching / Germany www.mlz-garching.de/positrons



The NEutron-induced POsitrone source MUniCh (NEPOMUC) at FRM II at the TU München provides the worlds most intense anti-matter beam. In addition the positron physics research group operates further experiments sourced by β^+ -emitters in its laboratories at the physics department. These cover a wide range of topics ranging from basic to material science.

Bachelor thesis

Analysis of the Material Properties during Precipitation Hardening of Al Alloys using Positrons

Al alloys play a vital role in structural engineering. Many Al alloys gain their strength from precipitation hardening. The process of precipitate formation in Al alloys, however, is still not fully understood. For this purpose, an AlCuLi alloy is to be investigated using the positron beam at NEPOMUC/FRM II. Coincident Doppler broadening spectroscopy uses the positron as a micro probe in order to gain valuable information of the chemical environment of the positron annihilation site. This allows the investigation of vacancy-solute complexes and the formation of precipitates in Al alloys.



Working in our group you will have the chance to experience, applied physics research at first hand while collaborating with both engineers and scientist. Also you will gain insight into the way a large science facility is operated.

Bewerbungen bitte an Leon Chryssos oder Prof. Christoph Hugenschmidt. Bei einer Online-Bewerbung bitten wir Sie, die Unterlagen in einer PDF-Datei gesammelt zu schicken.

MLZ ist eine Kooperation aus:

