

## From the ANCIENT CHARM Project to the future combined PGAI-NT station at FRM II

*Monday, 16 April 2012 15:18 (3 minutes)*

In frame of the ANCIENT CHARM project in 2006-2009 we have built a testing Prompt Gamma Activation Imaging installation combined with a Neutron Tomography set-up. Although the divergence of our beam is due to an elliptical end of the beam guide not optimal for tomography purposes, we have got an image-resolution smaller than 500  $\mu\text{m}$ . This resolution was sufficient in order to navigate the sample in the scanning mode for PGAI purposes (with ca. 2.3 mm x 2.3 mm large neutron beam). The knowledge we have learned during the ANCIENT CHARM project was a motivation to build a more precise PGAI-NT instrument with a better PGAI resolution of down to 1 mm x 1 mm neutron beam. The PGA-NT instrument should be installed at the end of 2012.

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