

ANTARES Upgrade - The New Imaging Beam Line at FRM II

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The well known ANTARES beam line at beam port SR4b at FRM II had to be completely dismantled to give way to a neutron guide to a new neutron guide hall.

The newly built beam line ANTARES Upgrade will be commissioned in spring/summer 2012 and will, in addition to nearly identical possible parameters as the old ANTARES, offer many extended new capabilities, such as a second experimental chamber closer to the reactor for higher flux and low background for small samples, and six instead of two selectable collimators for higher flux or higher resolution.

The beam forming components located in a separately accessible chamber will include a velocity selector, a double crystal

monochromator, several neutron optical periscopes to cut direct sight, one of them built as a highly efficient magnetic polariser. Linear phase contrast grids will be added soon.

A high-resolution scientific CMOS camera will allow for high-speed and high-resolution measurements.

We will present the new features and possible applications of ANTARES Upgrade.

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