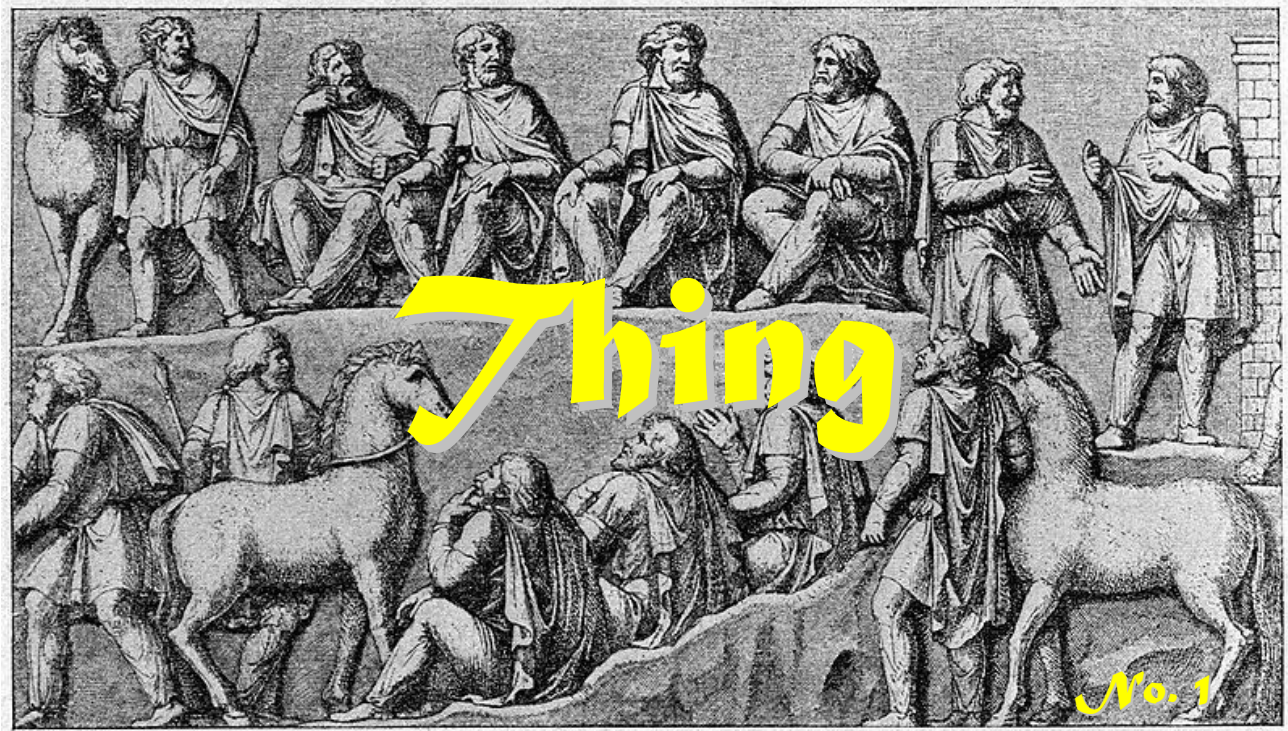


# Beam Diagnostics R&D



Thursday - 2010|08|26      Therapy Seminar Room      04:00 p.m.

Subject:      Fluorescent-screens, optics, camera

Presenter:      Andreas Reiter

## **How to characterize fluorescent screens with the help of a calibrated optical system**

In order to specify fluorescent-screens and a corresponding detector setup it is important to express the measurand using physical units. For the new FAIR-beam-lines screens and optical components as viewports, lenses and digital cameras have to be matched to various beams. Our aim is to calculate the number of emitted fluorescence photons per energy-loss for a given screen and set of beam parameters, based on a simple model.