SEMINAR  FRIDAY 25.04.2014

PLACE: MedViz Facilities., Møllendalsbakken 7, 5th floor
TIME : 12:00-13:00

SPEAKERS/TITLES

MR-physicist Erling Andersen,
Haukeland University Hospital, Dept of Clinical Engineering, and Dept of Radiology
Title: T1 quantification in phantom and healthy kidney

Professor Alexander Malyshev, Department of Mathematics, University of Bergen
Title: On the tracer-kinetic theory for perfusion estimation

ABSTRACT

Andersen
Tissue relaxation time T1 is a tissue property which is useful for the differentiation and characterization of tissue. It is also the mechanism of tissue enhancement in T1-weighted contrast-enhanced MRI exams. We will discuss the analysis and quantification methods, and implications for the data acquisition.

Malyshev
In this talk I will discuss some mathematical formulas useful for estimation of tissue parameters from the time curves of indicator concentration over whole organs. The theory will be illustrated by some computed examples.