



Joint LLC Seminar

Wednesday March 8, 15:15
The Rydberg Lecture Hall, Dep. of Physics

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Laser-based monitoring of gas in food and pharmaceutical packages and gas sensing in premature baby lungs – GASPOROX a spin-off company

Tunable Diode Laser Absorption Spectroscopy, TDLAS, is a standard technique used in research and in process industry for in-situ gas monitoring. The technology is based on the absorption of gases and the tunability of diode lasers and gives high sensitivity with fast and reliable result. GASPOROX, a spin off company, originating from the Department of Atomic Physics and Prof. Sune Svanberg's group, takes the TDLAS technology to a new dimension enabling gas sensing in a range of new applications and contexts, with focus of gas sensing in packages and inside the human body and the GASMAS technology. While, traditionally well-defined gas cells, or fixed installations have been required, GASPOROX enables the TDLAS technology to be applicable in different conditions from transparent samples to extremely low transmitting, scattering samples with different geometries and with multiple gas detection and implements their solutions in industrial settings and conditions. GASPOROX is active in two different fields, packaging and medical diagnostics. Cases of in-line installations from food and pharmaceutical production plants will be presented as well as the EU-project Neo-Lung where a system for pre-born baby lungs is under development.

**The seminar is suited for a broad audience
and open for everybody**

**The Rydberg Lecture Hall is located at the Department of Physics,
Professorsgatan 1**

**Coffee and refreshments will be served
before the seminar, from 15:00**

