

Nuclear Theory Workshop

MODERN METHODS IN COLLISION THEORY **Applications in Nuclear Physics and in Few-Body Physics**

Strasbourg, 5-9 december 2011

TOPICS :

- ❖ *DWBA - Optical models* (N. Timofeyuk)
- ❖ *The phenomenological and theoretical R-matrix Method* (P. Descouvemont)
- ❖ *Introduction to few-body methods via the Faddeev formalism* (R. Lazauskas)
- ❖ *Alpha particle condensation in nuclear systems* (P. Schuck)
- ❖ *Introduction to the Continuum Discretized Coupled Channel method (CDCC)*
(P. Chau Huu Tai - Theory)
- ❖ *Coupled-channel effects in nuclear reactions induced by heavy ions :
an experimental approach* (C. Beck)
- ❖ *Scattering theory on the momentum lattice : ultrafast calculations in few-body scattering*
(V.Kukulin)

LECTURERS :

- Christian Beck, IPHC-Strasbourg, France
- Pierre Chau, CEA DAM/Ile de France, France
- Pierre Descouvemont, PNTPM-Brussels, Belgium
- Vladimir Kukulin, Moscow State University, Russia
- Rimantas Lazauskas, IPHC-Strasbourg, France
- Peter Schuck, IPN-Orsay, France
- Natacha Timofeyuk, University of Surrey, UK

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