

ETA'05: Workshop on production and decay of η and η' mesons.

Michał Bobrzyński Conference Hall,
Collegium Maius, 15 Jagiellońska Street.
15.09. - 18.09. 2005

Thursday, September 15th

Arrival to Cracow.

Friday, September 16th

8:30-9:00 **Registration**

9:00-9:35 **Opening in Assembly Hall of Collegium Maius**

9:00-9:15 Prof. Karol Musiol, Rector of the Jagellonian University
Welcome

9:15-9:35 Prof. Bo Höistad, Spokesperson of the Eta Meson Network
Objectives of the EtaMesonNet activity

9:35-9:50 *coffee break*

9:50-11:15 **lectures, chairperson: Eulogio Oset**

9:50-10:30 Christoph Hanhart, FZ-Jülich

"Production of η mesons in hadron-induced reactions"

10:30-10:55 Colin Wilkin, University College London

"Theoretical description of the $pd \rightarrow pd\eta$ reaction"

10:55-11:15 Jerzy Smyrski, Jagellonian University

"Study of the η meson with a deuteron beam at COSY-11"

11:15-11:35 *coffee break*

11:35-12:35 **lectures, chairperson: Eulogio Oset**

11:35-11:55 Michael Döring, Valencia University

"Chiral dynamics in the $\gamma p \rightarrow \pi^0 \eta p$ and $\gamma p \rightarrow K^0 \pi^0 \Sigma^+$ reactions"

11:55-12:15 Hartmut Machner, FZ-Jülich

" η physics at GEM: precise determination of the η meson mass"

12:15-12:35 Kanzo Nakayama, Georgia University

"Photo- and hadro-production of η' meson"

12:35-14:00 *lunch*

14:00-15:45 **lectures, chairperson: Colin Wilkin**

14:00-14:25 Steven Bass, Innsbruck University

"Quark-gluon content of η and η' mesons and their interactions with nuclei"

14:25-14:45 Sławomir Wycech, IPJ Warsaw

"Baryon resonances - a mechanism for nuclear attraction"

14:45-15:05 Paweł Klaja, Jagellonian University

"Correlation femtoscopy for studying η meson production mechanism"

15:05-15:25 Teresa Peña, CFTP Lisbon

"Relativistic description of the $n p \rightarrow d \eta$ "

15:25-15:45 Albrecht Gillitzer, FZ-Jülich

"Study of η -mesic nuclei at GSI and COSY"

15:45-16:05 *coffee break*

16:05-17:05 **lectures, chairperson: Colin Wilkin**

16:05-16:20 Pia Thörngren Engblom, Uppsala University

"The production of two pions in the isospin zero channel"

16:20-16:35 Aleksandra Wrońska, Jagellonian University

"Near threshold η meson production in the $dd \rightarrow {}^4\text{He}\eta$ reaction"

16:35-16:50 Mikhail Bashkanov, Tübingen University

"Exclusive Measurements of $pd \rightarrow {}^3\text{He}\pi\pi$ - ABC effect revisited"

16:50-17:05 Karin Schönning, Uppsala University

" ω production in $pd \rightarrow {}^3\text{He}\omega$ at threshold energies"

17:05-19:30 *Guided tour through the University museum*

finishing with the reception in Stuba Communis

(ex-refectory for the University professors)

Saturday, September 17th

9:00-10:30 **lectures, chairperson: Bo Höistad**

9:00-9:40 Johan Bijnens, Lund University
"η and η' decays and what can be learned from them"

9:40-10:05 Bugra Borasoy, Bonn University
"Decays of η and η' within a chiral unitary approach"

10:05-10:25 Eulogio Oset, Valencia University
"η → π⁰γγ decay within a chiral unitary approach"

10:25-10:50 *coffee break*

10:50-12:30 **lectures, chairperson: Bo Höistad**

10:50-11:10 Andrzej Kupść, Uppsala University
"η decay into 3π⁰ and π⁰π⁺π⁻, from η tagged by the pd →³Heη reactions"

11:10-11:30 Caterine Bloise, LNF Frascati
"Perpectives of η and η' physics with 2 fb-1 at KLOE"

11:30-11:50 Tiziana Capussella, Napoli University
"Dalitz plot analysis of the η into 3π final state"

11:50-12:10 Boris Martemyanov, ITEP Moscow
"Quark mass ratio determination from the decay of η into 3π"

12:10-12:30 Alexander Starostin, UCLA
"Crystal Ball results from BNL"

12:30-14:00 *lunch*

14:00-15:00 **lectures, chairperson: Johan Bijnens**

14:00-14:20 Susan Chadmand, FZ-Jülich
"Physics with WASA at COSY"

14:20-14:40 Michael Lang, Mainz University
"Double polarization observables, η meson and two pion photoproduction"

14:40-15:00 Tatiana Skorodko, Tübingen University
"Two-pion production in NN and pd collisions"

15:00-15:15 *coffee break*

15:15-16:10 **lectures, chairperson: Johan Bijnens**

15:15-15:35 Marek Jacewicz, Uppsala University
"η decay into π⁺π⁻e⁺e⁻"

15:35-15:55 Frieder Kleefeld, CFIF Lisbon
"Coulomb-scattering and η-η' mixing angle"

15:55-16:10 Christian Pauly, Hamburg University
"η decay into 3π⁰ from η tagged by the pp → ppη reaction"

16:10-16:30 *coffee break*

16:30-17:25 **lectures, chairperson: Walter Oelert**

16:30-16:50 Rafał Czyżykiewicz, FZ-Jülich and Jagellonian University
"Analysing power of the $\vec{p}p \rightarrow pp\eta$ reaction close to threshold"

16:50-17:05 Alexander Nikolaev, Mainz University
"Status of the η mass measurement at Crystal Ball"

17:05-17:25 Biagio Di Micco, Rome University
"η → π⁰γγ, η/η' mixing angle and status of η mass measurement at KLOE"

17:25-17:55 Network Matters

17:55-18:00 *Closing*