



UNIVERSITY OF
LIVERPOOL

3RD EGAN WORKSHOP

24th – 27th June 2013

The meeting will be held in the Chadwick Building and Central Teaching Laboratory at the University of Liverpool. The location can be found by identifying buildings 207 and 802 on the [Map of the University of Liverpool](#)

Scope and Topics

The European Gamma and Ancillary detectors Network (EGAN), in the framework of ENSAR (FP7), promotes the mutual coordination between research groups involved in high-resolution gamma-ray spectroscopy to optimize the use of the valuable resources at the different infrastructures and to enhance synergies among researchers on a broad European scale for frontline research.

The aim of the EGAN 2013 Workshop is to present the latest physics results on obtained with the different gamma arrays and to strengthen the collaboration between theoreticians and experimentalists. In particular we want to explore different methods and techniques from both the structure and reaction mechanism points of view to plan and design new experiments at the stable and radioactive beam facilities.

Review talks are planned with ample time scheduled for discussion. These reviews will be followed by shorter contributions selected from the submitted abstracts. The deadline for abstract submission is the 15th April 2013. Information regarding the abstract selection will be notified to the contributors by the 30th April 2013. The workshop will start at 2pm on Monday 24th June. A welcome cocktail will be served on the evening of the 24th June. The Social Dinner will take place on the evening of Tuesday 25th June.

Annual Open Meeting of the AGATA Collaboration

Wednesday 26th and 27th June (am) will be dedicated to the annual open meeting of the AGATA collaboration organized by the AGATA Collaboration Council where the status, results and plans of the AGATA project will be discussed. There will be a reception on the evening of 26th June sponsored by Canberra.

Meetings of the EGAN Working Groups

The afternoon of Thursday 27th June will be devoted to the meetings of the EGAN Scientific Committee and of the Working Groups coordinating the ancillary instrumentation developments.

EGAN Programme

All lectures are in the Chadwick Lecture Theatre

Refreshments and Lunches in the Central Teaching Hub

Monday 24th June 2013

13:45 Introduction and Welcome

Welcome to Liverpool **Paul Nolan**
The EGAN network **Silvia Lenzi**

14:00 Session 1 (Chair: Rodi Herzberg)

Recent highlights from JUROGAM2 experiments

Rauno Julin 25+5

Simultaneous conversion-electron and γ -ray spectroscopy using SAGE: Preliminary results of an in-beam study of ^{253}No using SAGE

Andrew Mistry 12+3

Exotic rotations and seniority isomers in Nd nuclei

Costel Petrache 12+3

The N=40 physics; from N=Z to ^{60}Ca

Alfredo Poves 25+5

15:30 Refreshment break

16:00 Session 2 (Chair: Robert Page)

The summary of the first EAGLE campaign with GAMMAPOOL detectors

Jan Mierzejewski 12+3

What should be a proper measure of the quadruple deformation and triaxiality

Julian Srebrny 12+3

Mirror Spectroscopy in the upper fp Shell with GRETINA

Tom Henry 12+3

Structure and correlations probed via nucleon knockout reactions

Ed Simpson 20+5

The Orsay Universal Plunger System

Joa Ljundvall 12+3

Linear polarization measurement of gamma-rays in ^{94}Ru

Farnaz Moradi 12+3

18:00 Reception

19:30 Finish

Status and perspectives of the GALILEO project

Roberto Menegazzo 25+5

12:30 Lunch break

14:00 Session 5 (Chair: Peter Butler)

Latest results from MINIBALL at REX-ISOLDE

Peter Reiter 25+5

Spin-aligned neutron-proton pair mode in atomic nuclei

Chong Qi 25+5

Preliminary results of Single Phoswich (LaBr₃) and Cluster Phoswich

Sefa Erturk 12+3

The DIAMANT light charged particle detector system of CsI(Tl) scintillators

Barna Nyako 12+3

15:30 Refreshment break

16:00 Session 6 (Chair: Magdalena Gorska)

Search for spontaneous time-reversal symmetry breaking in nuclear systems

Ernest Grodner 25+5

Exotic nuclei and nuclear astrophysics

Gabriel Martínez Pinedo 25+5

Status of the EURICA Project

Pieter Doornenbal 25+5

17:30 Finish

AGATA Open meeting programme

Wednesday 26th June 2013

09:00 Overview session

Introduction	John Simpson	5
AGATA status at GSI	Juergen Gerl	20+5
GRETINA Status: Technical Aspects	Augusto Macchiavelli	25+5
GRETINA Science programme	Mark Riley	25+5

10:30 Refreshment break

11:00 LNL Session (Chair: Daniel Napoli)

Collectivity in neutron-rich Co and Mn isotopes going towards $N = 40$
Victor Modamio 10 + 3

Lifetimes of intruder states in neutron-rich $N = 20$ nuclei using the recoil-distance technique with AGATA and PRISMA
Laura Grocutt 10 + 3

Study of shape transition in the neutron-rich Os isotopes
Philipp John 10 + 3

The spectroscopy of exotic nuclei
Corine Louchart 10 + 3

The structure of ^{42}Ca Coulomb excited states.
Katarzyna Hadyńska-Klęk 10 + 3

Global properties of K-hindrance probed by the gamma-decay of the warm rotating ^{174}W nucleus
Silvia Leoni 10 + 3

Isospin mixing at finite temperature in ^{80}Zr
Franco Camera 10 + 3

12:30 Lunch break

14:00 AGATA data analysis session (Chair: Andy Boston)

Olivier Stezowski (30)

Damien Ralet (30)

Philip John (30)

15:30 Refreshment break

16:00 GSI session (Chair: Juergen Gerl)

Overview of the commissioning and set-up

Plamen Boutachkov 10 + 2

Collectivity around 208Pb

Zsolt Podolyak 10 + 2

Search for PDR strength in 64Fe

Franco Camera 10 + 2

Coulomb excitation of the band-terminating 12+ yrast trap in 52Fe:
Status of the Data Analysis

Tayfun Huyuk 10 + 2

DSAM in neutron rich Zr isotopes, second step fragmentation
experiment with AGATA

Damian Ralet 10 + 2

17:00 End

17:30 to 23:00 Cathedral Dinner

Thursday 27th June 2013

09:30 Ganil session (Chair: John Simpson)

Overview of Ganil

Silvia Lenzi

10:30 Refreshment Break

11:00 AGATA Collaboration Council Meeting

12:30 End

12:30 Lunch

EGAN Working Group meeting programme

Thursday 27th June 2013 from 2.00pm

WG 1 ANCILLARIES

5' Intro (D.Mengoni)

15' Interstip and cross-talk effects in highly segmented silicon detectors (J.Duenas)

15' Recent test on digital PSA with highly segmented silicon detectors (M.Assie)

15' High-energy gamma detectors:PARIS status and recent test (P.Bednarczyk)

15' Neutron detectors: NeDA status and recent test (M.Palacz)

15' Diamond based radiation detector for nuclear physics applications (A.Lohstroh)

30' COFFEE BREAK

WG 2 ELECTRONICS

5' Intro (S.Brambilla)

15' Electronics for EXOGAM2: NUMEXO2 digitizer and synergies with detectors for SPIRAL2 (M.Tripon)

15' New AGATA/GALILEO electronics: status and progress (D.Barrientos)

WG 3 SIMULATIONS

5' Intro (M.Palacz)

15' An overview of AGATA ancillary simulations (Marc Labiche)

15' Silicon-signal simulation using ADL (D.Mengoni)

15' PARIS simulations (O.Stezowski)