

Experimental Report

24/03/2014

Proposal:	BAG-03-4	Council:	10/2012	
Title:	EXILL - Pu241 spectroscopy			
This proposal is a new proposal				
Research Area:	Nuclear and Particle Physics			
Main proposer: BALABANSKI Dimiter				
Experimental Team:	MAGRON cecile AUGEY Lou RAMDHANE Mourad KIM Mimae NAPOLI Daniel R. ORLANDI Riccardo CELIKOVIC Igor KONSTANTINOPOULOS THEODOROS ZERROUKI Thileli MELON Barbara STEZOWSKI Olivier MANCUSO Clément NANNINI Adriana SINGH Purnima KONSTANTINOPOULOS THEODOROS BACK Torbjörn BOTTONI Simone CEDERWALL Bo CIEPLICKA Natalia CSATLOS Margit CZERWINSKI Michal DE FRANCE Gilles DUCHENE gilbert GRENTE Lucie GUINET Daniel KRASZNAHORKAY Attila KURPETA Jan LEGUILLON ROMAIN LITAIZE OLIVIER PETRACHE Costel REDON Nadine REGNIER David RZACA-URBAN Teresa URBAN WALDEMAR ZIELINSKA Magda JOLIE Jan REGIS Jean-Marc			
Local Contact:	BLANC Aurelien SOLDNER Torsten KOESTER Ulli JENTSCHEL Michael MUTTI Paolo			
Samples:				
Instrument	Req. Days	All. Days	From	To
PF1B	16	16	23/03/2013	09/04/2013

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Research Area:	Nuclear and Particle Physics		
Main proposer: BISWAS DIPAK			
Experimental Team:	MAGRON cecile AUGEY Lou RAMDHANE Mourad KIM Mimae NAPOLI Daniel R. ORLANDI Riccardo CELIKOVIC Igor KONSTANTINOPOULOS THEODOROS ZERROUKI Thileli MELON Barbara STEZOWSKI Olivier MANCUSO Clément NANNINI Adriana SINGH Purnima KONSTANTINOPOULOS THEODOROS BACK Torbjörn BOTTONI Simone CEDERWALL Bo CIEPLICKA Natalia CSATLOS Margit CZERWINSKI Michal DE FRANCE Gilles DUCHENE gilbert GRENTÉ Lucie GUINET Daniel		

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Proposal:	BAG-03-4	Council:	10/2012	
Title:	EXILL - Pu241 spectroscopy			
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Research Area:	Nuclear and Particle Physics			
Main proposer:	CELIKOVIC Igor			
Experimental Team:	MAGRON cecile AUGEY Lou RAMDHANE Mourad KIM Mima NAPOLI Daniel R. ORLANDI Riccardo CELIKOVIC Igor KONSTANTINOPOULOS THEODOROS			

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Research Area:	Nuclear and Particle Physics		
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Main proposer:	LEONI Silvia			
Experimental Team:	MAGRON cecile AUGEY Lou RAMDHANE Mourad KIM Mimae NAPOLI Daniel R. ORLANDI Riccardo CELIKOVIC Igor KONSTANTINOPOULOS THEODOROS			

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Research Area:	Nuclear and Particle Physics		
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Experimental Team:	MAGRON cecile AUGEY Lou RAMDHANE Mourad KIM Mimae NAPOLI Daniel R. ORLANDI Riccardo CELIKOVIC Igor KONSTANTINOPOULOS THEODOROS ZERROUKI Thileli MELON Barbara STEZOWSKI Olivier MANCUSO Clément NANNINI Adriana SINGH Purnima KONSTANTINOPOULOS THEODOROS BACK Torbjörn BOTTONI Simone CEDERWALL Bo CIEPLICKA Natalia CSATLOS Margit CZERWINSKI Michal DE FRANCE Gilles DUCHENE gilbert GRENTE Lucie GUINET Daniel		

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Main proposer:	LOZEVA Radomira			
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Research Area:	Nuclear and Particle Physics		
Main proposer:	PETRACHE Costel		
Experimental Team:	MAGRON cecile AUGEY Lou RAMDHANE Mourad KIM Mimae NAPOLI Daniel R. ORLANDI Riccardo CELIKOVIC Igor KONSTANTINOPOULOS THEODOROS ZERROUKI Thileli MELON Barbara STEZOWSKI Olivier MANCUSO Clément NANNINI Adriana SINGH Purnima KONSTANTINOPOULOS THEODOROS BACK Torbjörn BOTTONI Simone CEDERWALL Bo CIEPLICKA Natalia CSATLOS Margit CZERWINSKI Michal DE FRANCE Gilles DUCHENE gilbert GRENTÉ Lucie GUINET Daniel		

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Research Area:	Nuclear and Particle Physics			
Main proposer:	RAMDHANE Mourad			
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Research Area:	Nuclear and Particle Physics			
Main proposer:	SALSAC marie-delphine			
Experimental Team:	KRASZNAHORKAY Attila KURPETA Jan LEGUILLON ROMAIN LITAIZE OLIVIER PETRACHE Costel REDON Nadine REGNIER David RZACA-URBAN Teresa URBAN WALDEMAR ZIELINSKA Magda JOLIE Jan REGIS Jean-Marc			
Local Contact:	BLANC Aurelien SOLDNER Torsten KOESTER Ulli JENTSCHEL Michael MUTTI Paolo			
Samples:				
Instrument	Req. Days	All. Days	From	To
PF1B	16	16	23/03/2013	09/04/2013
Abstract:				
Proposal:	BAG-03-4	Council:	10/2012	
Title:	EXILL - Pu241 spectroscopy			
This proposal is a new proposal				
Research Area:	Nuclear and Particle Physics			
Main proposer:	SIMPSON Gary			
Experimental Team:	MAGRON cecile AUGEY Lou RAMDHANE Mourad KIM Mima NAPOLI Daniel R. ORLANDI Riccardo CELIKOVIC Igor KONSTANTINOPOULOS THEODOROS			

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Experimental Team:	ZERROUKI Thileli MELON Barbara STEZOWSKI Olivier MANCUSO Clément NANNINI Adriana SINGH Purnima KONSTANTINOPOULOS THEODOROS BACK Torbjörn BOTTONI Simone CEDERWALL Bo CIEPLICKA Natalia CSATLOS Margit CZERWINSKI Michal DE FRANCE Gilles DUCHENE gilbert GRENTE Lucie GUINET Daniel KRASZNAHORKAY Attila KURPETA Jan LEGUILLON ROMAIN LITAIZE OLIVIER PETRACHE Costel REDON Nadine REGNIER David RZACA-URBAN Teresa URBAN WALDEMAR ZIELINSKA Magda JOLIE Jan REGIS Jean-Marc			
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Experimental Report

24/03/2014

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Main proposer:	URBAN WALDEMAR			
Experimental Team:	MAGRON cecile AUGEY Lou RAMDHANE Mourad KIM Mima NAPOLI Daniel R. ORLANDI Riccardo CELIKOVIC Igor KONSTANTINOPOULOS THEODOROS			

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Experimental report for BAG-03-4
Title : EXILL - Pu241 spectroscopy
Instrument : PF1B
From :23/03/13 To : 09/04/13
Spokesperson : E. Clément (GANIL)

As a reminder the goal of the experiment was to investigate the rapid onset of quadrupole deformation that is known to occur around the neutron number $N=60$ in the neutron-rich isotopes between $Z=36$ and $Z=42$. This shape change has made of the neutron-rich $A = 100$ region an active area of experimental and theoretical studies since several decades already. The involved nuclei are the best examples of the interplay between single-particle and collective modes of excitation in the nuclear matter. In such regions, large variations of the observed spectroscopic properties at a particular proton or neutron number make the theoretical interpretation particularly challenging.

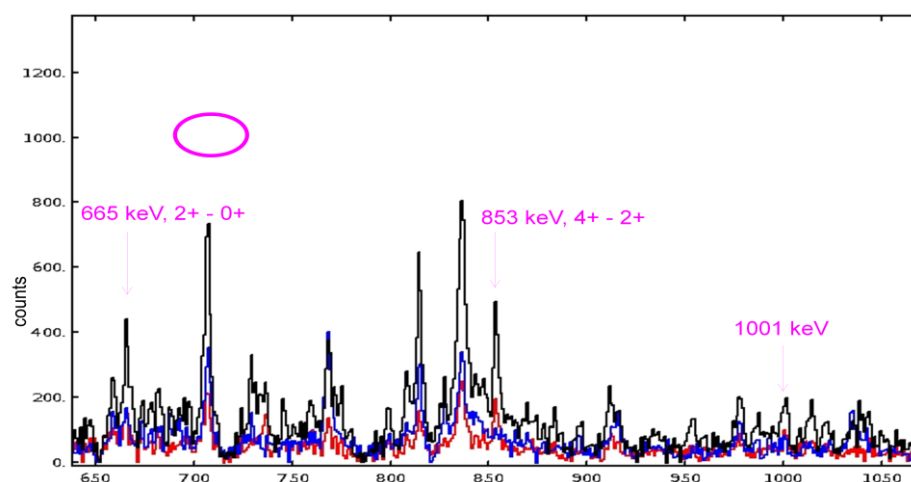
The “south” limit of the phenomenon has been proposed in the Kr chain [S. Naimi *et al.*, Phys. Rev. Lett. 105, 032502 (2010)] from mass measurement. In the first part of the EXILL campaign, our group is aiming to study the collectivity of the $N=60$ ^{96}Kr beyond the first excited state recently reported [M. Albers *et al.*, Phys.Rev.Lett. 108, 062701 (2012).]

Data were collected at the PF1B beam line according to schedule.

The data analysis has started at the laboratory in autumn 2013. It is worth mentioning that the collaboration has collected a huge amount of data. The data analysis is performed by C. Michelagnoli at GANIL who has successfully obtained a three years contract starting in October 2013. The scientific objective of this post-doc contract is the data analysis of the BAG-03-4 experiment.

During the last months, main effort was put on the pre-processing of the several To of data and careful time and energy calibration of the germanium detector. As the data analysis relies only on γ - γ - γ coincidences, stability and accuracy of the calibrations is crucial. Preparation and coding of the data analysis program was also a major task of the first part of 2014.

As a result first multi-gate analyses have been produced to evaluate the quality of the data.



Triple γ spectra obtained in coincidence with the complementary fragment of ^{140}Ba . The black spectrum is obtained with two conditions on the ^{140}Ba γ -decay and one transition in ^{94}Kr .

See for instance a first triple coincidence spectrum with a fraction of the data focused on ^{94}Kr . The transition indicated in the spectrum belong to ^{94}Kr . Careful work on the gating condition in order to balance the contribution of the β -decay and prompt fission is on-going.

The data analysis will continue in the coming months as well as the fast-timing data.

Preliminary results have been presented at the FISSION-2013 conference [E. Clément *et al* EPJ Web of Conferences **62**, 01003 (2013).]