



Contribution ID: 176

Type: **Parallel Talk**

## The EXOTIC project at INFN-LNL

*Tuesday 24 October 2017 10:30 (30 minutes)*

I will present the low-energy light Radioactive Ion Beam (RIB) in-flight facility EXOTIC [1-4], operational at the INFN-Laboratori Nazionali di Legnaro (INFN-LNL) and the associated experimental set up [5] designed for nuclear physics and nuclear astrophysics experiments. I will present the outline of the experimental program carried out employing the produced RIBs and discuss few selected recent experiments. Finally, I will give the perspectives of the EXOTIC project.

1. V.Z. Maidikov et al., Nucl. Phys. A 746 (2004) 389c
2. D. Pierroutsakou et al., Eur. Phys. J. Special Topics 150 (2007) 47
3. F. Farinon et al., Nucl. Instr. and Meth. B 266 (2008) 4097
4. M. Mazzocco et al., Nucl. Instr. and Meth. B 266 (2008) 4665 ; Nucl. Instr. and Meth. B 317 (2013) 223
5. D. Pierroutsakou et al., Nucl. Instr. and Meth. A 834 (2016) 46

**Author:** PIERROUTSAKOU, D. (INFN-Sezione di Napoli, via Cintia, 80126 Napoli, Italy)

**Co-author:** THE EXOTIC COLLABORATION

**Presenter:** PIERROUTSAKOU, D. (INFN-Sezione di Napoli, via Cintia, 80126 Napoli, Italy)

**Session Classification:** Parallel Sessions - NUC

**Track Classification:** Nuclear Structure, Nuclear Reactions and Exotic Nuclei