

# FFAG 2007

ID de Contribution: 3

Type: **Oral presentation**

## **A 10-MWatt 1-GeV Proton Driver with FFAG accelerator**

*lundi 16 avril 2007 12:00 (20 minutes)*

The use of a Non-Scaling FFAG accelerator is here described for the acceleration of Protons to 1 GeV or more for an average beam power of 10 MWatt or more. Several modes of operation are described: at the repetition rate of 1 kHz, 10 kHz, and in Continuous Mode. The use of Harmonic Number Jump method for acceleration is also assumed. Possible applications for the Proton Driver includes Spallation Neutron Source, pulsed and Continuous, driving a subcritical nuclear core for energy production, waste transmutation, tritium production, radioisotopes production, and more...

**Auteur principal:** Dr RUGGIERO, Alessandro (Brookhaven National Laboratory)

**Orateur:** Dr RUGGIERO, Alessandro (Brookhaven National Laboratory)

**Classification de Session:** Proton Acceleration - ADS - RIA

**Classification de thématique:** Proton acceleration for ADS