## THE ACCELERATORS FOR THE POLISH LIGHT SOURCE AND MAX IV

## Mikael Eriksson 1\*, Adriana Wawrzyniak 1,2, and Piotr Goryl 1,2

<sup>1</sup> MAX-lab Lund University, P.O. Box 118, SE-221 00 Lund, Sweden <sup>2</sup> Institute of Physics, Jagiellonian University, PL 30-059 Krakow Poland

Keywords: synchrotron, Polish Light Source, insertion device

Two light source facilities are planned to be built up in parallel. The Polish Light Source (PLS) to be raised in Krakow and the MAX IV facility in Lund, Sweden.

The MAX IV facility will consist of one 3 GeV injector linac and two storage rings operated at 1.5 GeV and 3 GeV respectively. The 1.5 GeV ring is planned to be produced in two examples, one for PLS and one for MAX IV. As an injector for PLS, a 400 MeV

recirculated linac system, similar to the MAX-lab injector, is planned to be used.

Both the MAX IV as well the PLS facility will be presented with the emphasis put on the PLS facility. The accelerator design philosophy as well as the design itself will be discussed. The synchrotron radiation properties for different types of insertion devices will also be presented.