

**MAPA - An Object Oriented Code with a Graphical User Interface for Accelerator Design and Analysis** \*, S.G. SHASHARINA \*\*, J. R. CARY \*\*, W. WAN, U. Colorado - We developed a code for accelerator modelling which will allow users to create and analyse accelerators through a graphical user interface (GUI). The GUI can read an accelerator from files or create it by adding elements. It also creates 4D orbits and lifetime plots. The code includes a set of accelerator elements classes and a C++ GUI library. Due to the GUI, the code is easy to use, and due to the object oriented nature, it is easy to expand. We will present examples of both.

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