

Abstract Submitted  
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**A Improved Version of ISICS**<sup>1</sup> SAM CIPOLLA, Physics Department, Creighton University, Omaha, NE 68178 — The C++ program, ISICS, which calculates K, L, M sub-shell ionization and x-ray production cross sections from the PWBA and ECPSSR theories, has found much use in basic and applied research. The following improvements have been added to the original version: united-atom option for the binding energy correction, easy inputting of new atomic parameters, along with corrections of minor bugs in the original version. Sample results will be demonstrated.

<sup>1</sup>Liu, Z. and Cipolla, S., Computer Physics Communications **97** (1996) 315-330.

Sam Cipolla  
Physics Department, Creighton University, Omaha, NE 68178

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