

Abstract Submitted
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Conical Reflection in Direct Simulation Monte Carlo¹ ANDREW SAMPSON, ADAM PAYNE, WILLIAM SOMERS, ROSS SPENCER, Brigham Young University — Fenix is a particle-in-cell simulation, using a Direct Simulation Monte Carlo method, and is aimed to improve the accuracy of Inductively Coupled Plasma Mass Spectrometry (ICP-MS). It currently focuses on the ICP-MS first expansion region through a supersonic nozzle in cylindrical symmetry. Due to increased complexity in Fenix, it has become necessary to solve the general conical surface reflection problem. The previous method, the new solution, and results from the enhanced simulation will be presented.

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