

Abstract Submitted  
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**Design and Construction of a Snap Together-Ion Source** TYLER WESTOVER, JOHN E. ELLSWORTH, Brigham Young University — Ion sources are ubiquitous in the sciences and in manufacturing, giving rise to various designs each with advantages and disadvantages. At BYU we are currently constructing a new “snap-together” ion source for use with a small low energy particle accelerator. Some of the important features considered in this ion source are: beam spread, energy spread, longevity, ease of repair, ion species and size of the source. I will present the unique advantages and disadvantages along with the progress made on this new ion source.

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