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15 - General Fusion Overview

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General Fusion is a private company developing Magnetized Target Fusion (MTF). Using the General Fusion MTF method, we first form a spherical tokamak inside a cavity in liquid metal. Compressed gas pushes on pistons that rapidly inject more liquid metal in the chamber, collapsing the cavity and compressing the trapped plasma to higher density and temperature. After a brief description of our system, we will look at General Fusion's latest results forming a spherical tokamak by coaxial helicity injection. We have achieved plasma with sufficient density, temperature and lifetime to be good candidates for compression. The results from compressing some of these plasmas to higher density and temperature will be presented. Finally, we will look at our future plans and extrapolation to a point design for an MTF power plant.

Author: MICHAEL, Delage (General Fusion)

Presenter: MICHAEL, Delage (General Fusion)

Session Classification: DPP Poster Session & Student Poster Competition Finals (7) | Session d'affiches DPP et finales du concours d'affiches étudiantes (7)

Track Classification: Plasma Physics / Physique des plasmas (DPP)