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## Ion beam plasma interaction with respect to High Energy Density Science and relevance to energy from nuclear fusion -Proton Boron Fusion revisited-

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High intensity particle accelerators like FAIR at GSI Darmstadt and the proposed HIAF facility in China are a new tools to induce High Energy Density states in matter. We will give an account of High Energy Density Physics with aspects of inertial fusion energy and due to recent developments we will address Proton-11Boron fusion.

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