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The energy of a heavy ion beam is directly transferred to efficient ionization of atoms and ions; the specific energy loss is high in a cylindrical volume around the particle beam axis with the energy loss  $dE/dx$  scaling as  $Z^2$ , implying higher energy densities with the highest  $Z$  beams. High power is achieved with pulsed bunched beams from present accelerators, typical pulse widths being around 1 ns, and most accelerators have very attractive duty cycles compared to pulsed lasers.

[Heavy Ions - an overview | ScienceDirect Topics](#)

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[High energy nuclear physics - Wikipedia](#)

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