

Unusual Beams

Noble Gas Ions	Molecules	Negative Ion Beams	Cold Beams
<p>Requested Beams :</p> <p>Ne¹⁺, Ar¹⁺, Ne²⁺, Ar²⁺, Kr²⁺</p> <p>Problems:</p> <p>No (sufficiently stable) negative Ions Available for Tandem Injection</p> <p>Solution :</p> <p>PIXE – Pelletron ECR-Source</p>	<p>Requested Beams :</p> <p>H₂, H₃, D₂, HD, ³HeH, HeH, D₃, LiH, LiH₂, CH, CH₂, HF, DCND, CF, HCO, C₂OH₄</p> <p>Problems:</p> <p>Negative Ions Stripping Process</p> <p>Solution :</p> <p>High Current Injector + Linac Tandem Operation possible</p>	<p>Requested Beams :</p> <p>H⁻, D⁻, Li⁻, LiH⁻, LiH₂⁻</p> <p>Problems:</p> <p>No Charge Exchange Possible</p> <p>Solution :</p> <p>High Current Injector</p>	<p>Requested Beams:</p> <p>Ultracold Molecules H₂, HD, H₃, D₃</p> <p>Problems:</p> <p>Hot Plasma in Source</p> <p>Solution :</p> <p>Dedicated Ion Sources for High Current Injector</p>