



# Principle of polarized ion (proton) sources



Type	prod. of electron polarization	prod. of nuclear polarization	ionization to (fast) $H^+$ ion beam	location
Atomic Beam Source <b>ABS</b>	slow dissociator + SG-magnet	slow RF- transitions	electr. impact ionizer + pre- accel. + CEX *	Tandem Lab (Munich)
Colliding Beam Source <b>CBS</b>	“	“	direct CEX* by fast Cs atoms + pre-accel.	<b>COSY</b> (FZ Juelich)
Opt. Pumped Pol. Ion Source <b>OPPIS</b>	fast CEX* on opt. pumped Rb vapor	fast Sona trans., i.e. non-adiabatic pass. of $B=0$	fast CEX* on Na vapor	RHIC (BNL, NY)

\*) CEX = charge exchange on Alkali vapor

# Polarized Proton Ion Sources

**Alex Chao**



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