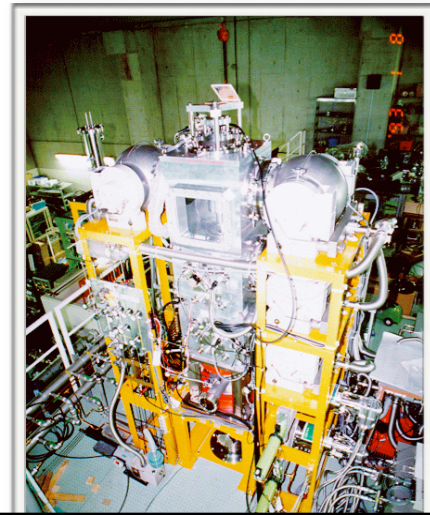


RIBF Polarized Deuteron Beam

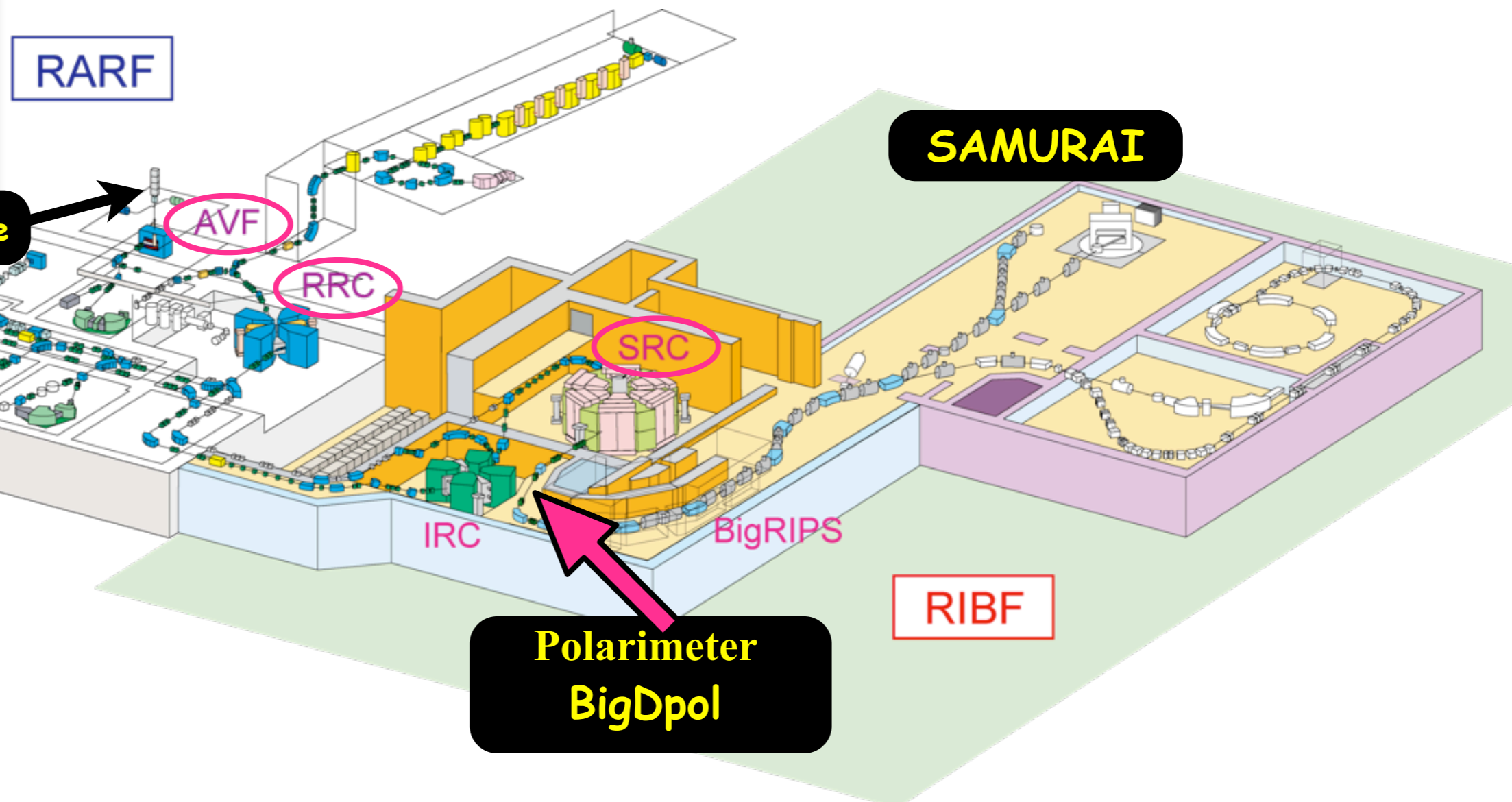
- **Polarized d beam** is accelerated by AVF+RRC+ **SRC** up to **440 MeV/nucleon** in maximum,
- Spin axis of deuteron beam is rotated **prior to acceleration**.
- **Single turn extraction of beam** is required to maintain polarization amplitudes during acceleration.

→ 偏極軸を自由自在に制御：理研偏極重陽子ビームの最大の特徴

- IRC bypass transport beam line was constructed in 2008.
- First experiment with 250 MeV/nucleon pol.d beam was performed in April, 2009.
 - Beam Polarization : 60-80 % (of the theoretical maximum values)

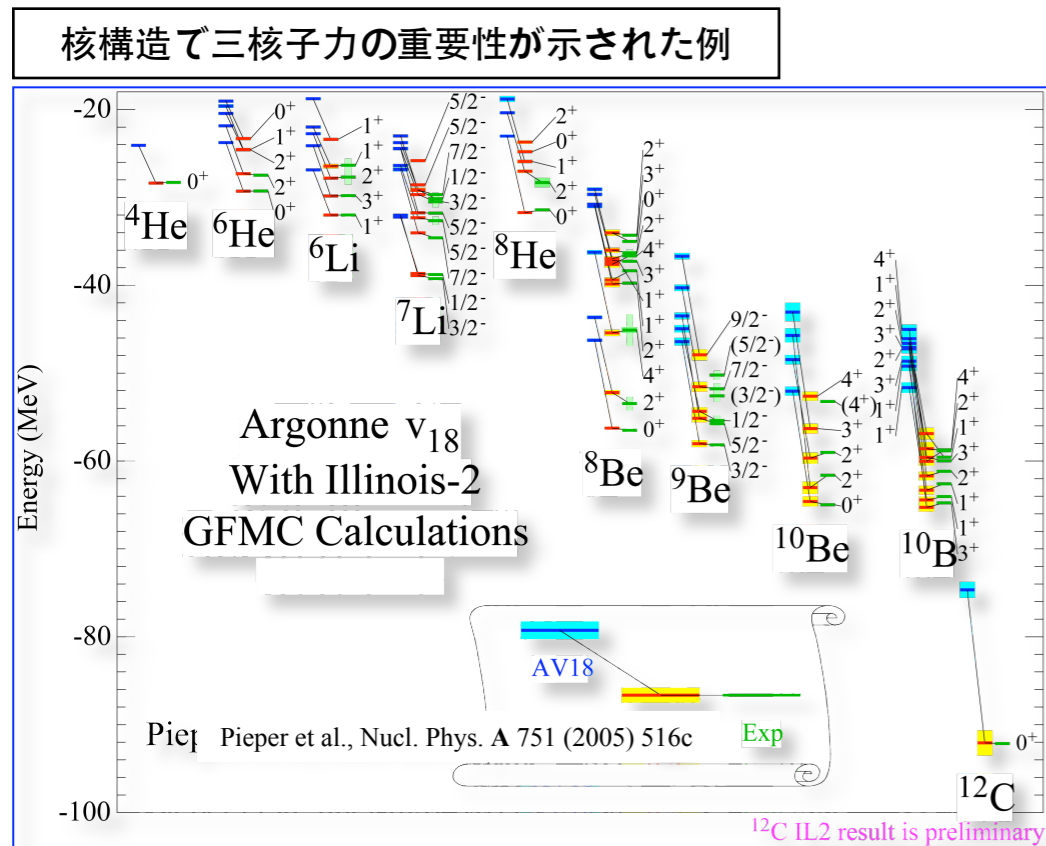


Polarized Ion Source



現在の研究

- 三核子系による三核子力の研究
 - 重陽子-陽子弾性散乱
 - 後方散乱 & テンソル偏極量が面白そう
 - 重陽子-陽子分解反応
 - エネルギーが高い程、主要反応となる
 - 特定の幾何学条件に焦点を充てて測定する予定
- 三核子力のアイソスピン依存性にアプローチする研究
 - 四核子系の反応 etc...



三核子系における研究：我々の最新の結果@RIBF
dp elastic scattering at 250 MeV/A

