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## Approaches to Element 114 Chemistry with and without Physical Preseparation

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1.

- +
- 2. Chemistry

Physics

- 1. Physical preseparation from volatile products
- 2. Gas phase chemistry or chemistry in vacuum

- 1. Chemistry
- 2. Chemistry

1. Chemical preseparation from volatile products (Rn)

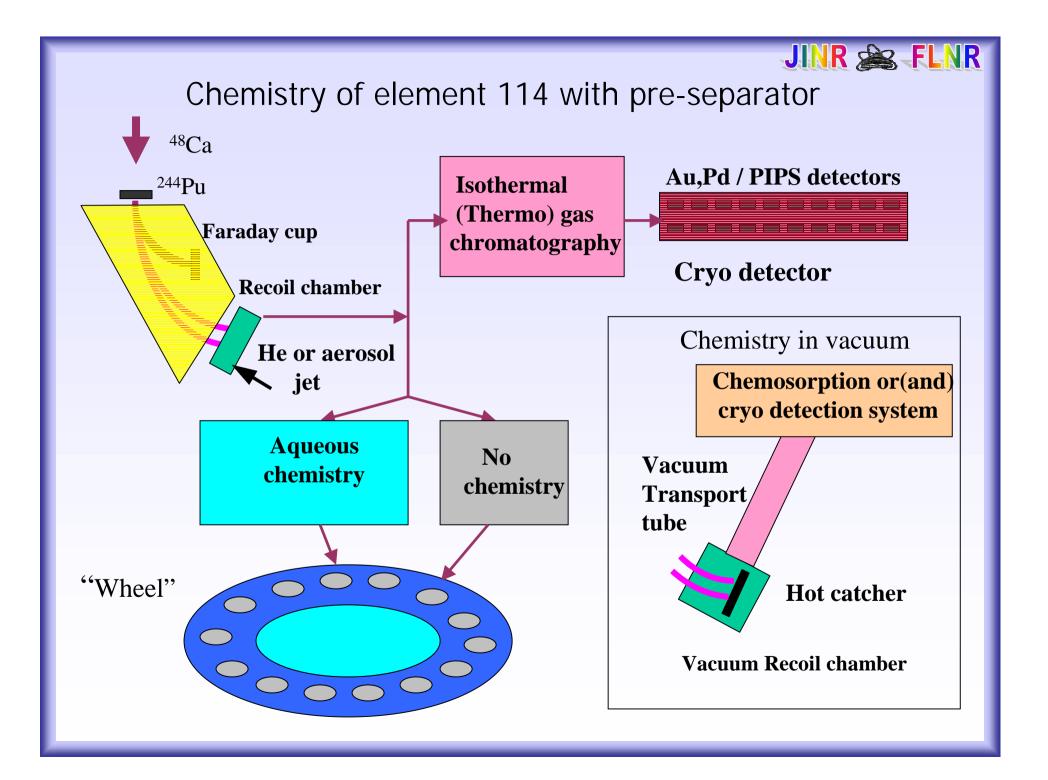
2. Gas phase chemistry ofE112 asdaughter ofE114

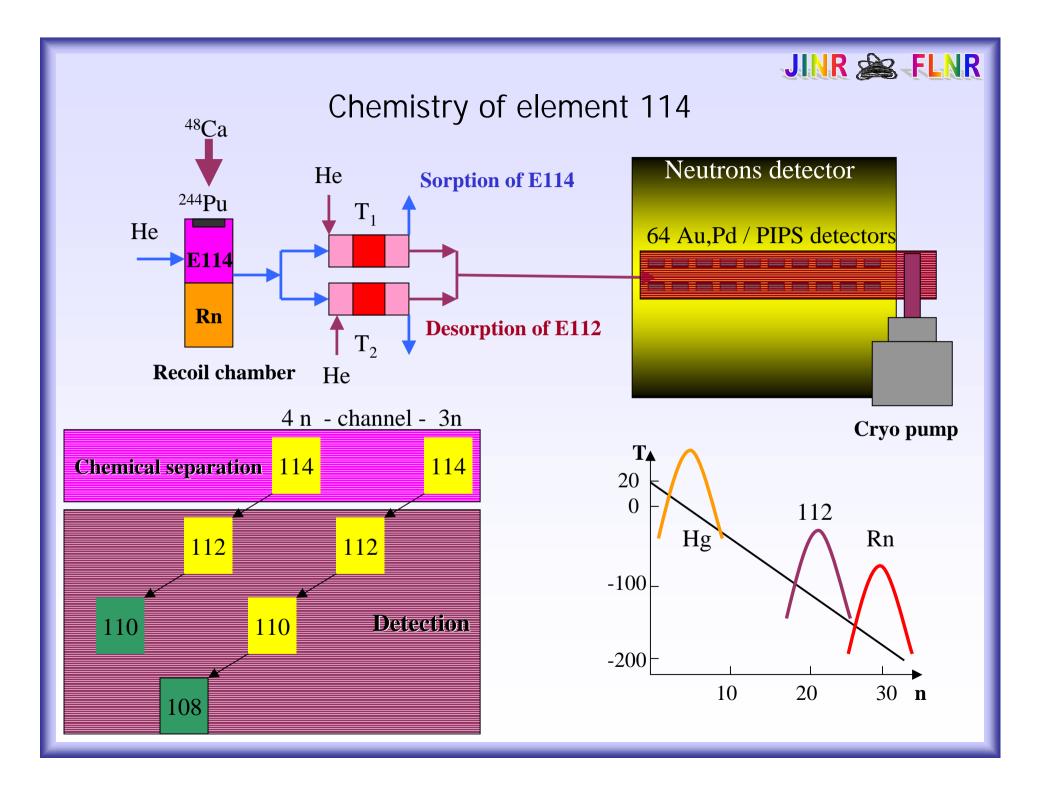
- 1. Chemistry
- + 2.
- Physics

1. Chemical preseparation of volatile products

2. Physical mass separation

(MASHA)





## Chemistry of Element 114 with preseparator

Developments:

Gas phase chemistry

Vacuum chemistry

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- Gas transport of recoils from RTC
- Gas chromatography
- Sorbtion & detection

Hot catcher

- Transportation in vacuum
- Sorbtion & detection

- **?** Chemistry with element 114 or element 112
- **?** Properties of element 114 Pb like, Hg like or Rn like?
- ✓ No Rn background problem!!!