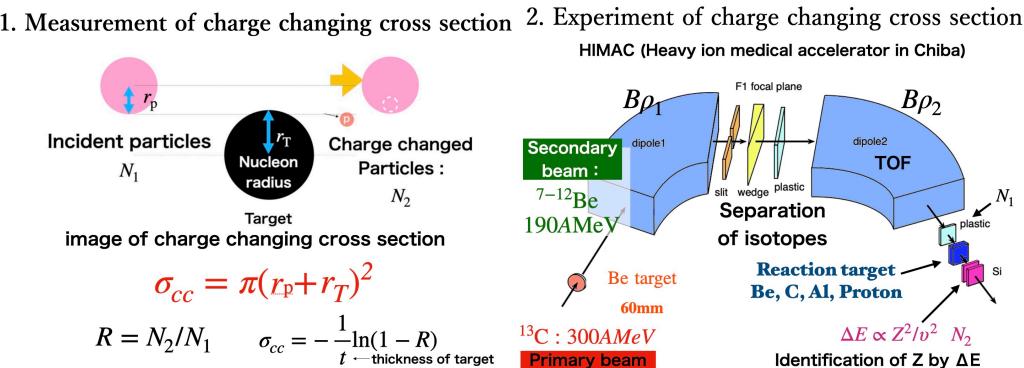
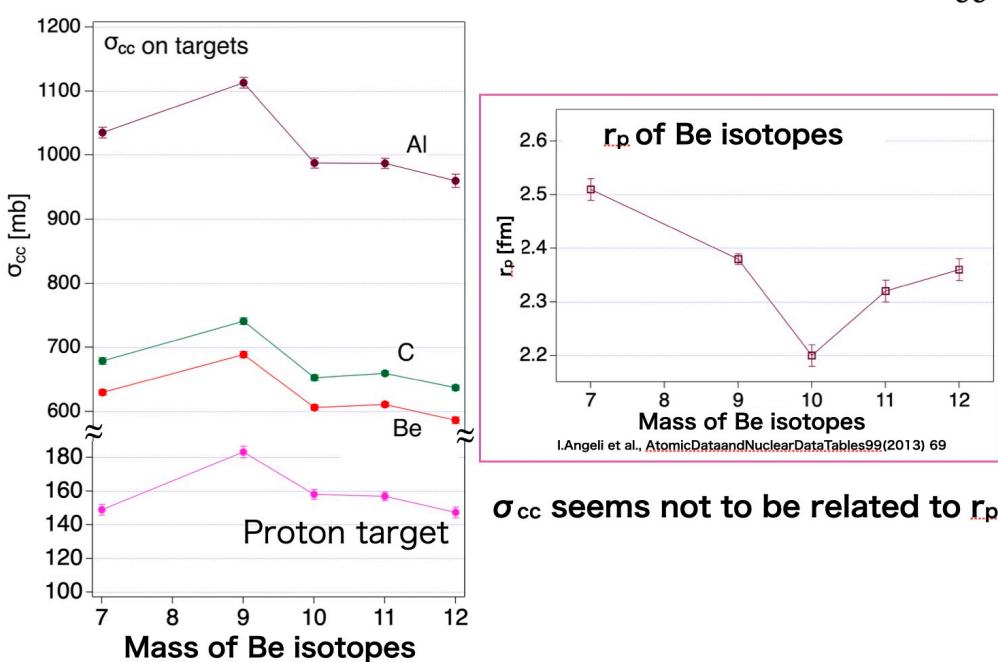


Charge changing cross section and proton distribution radii of Be isotopes

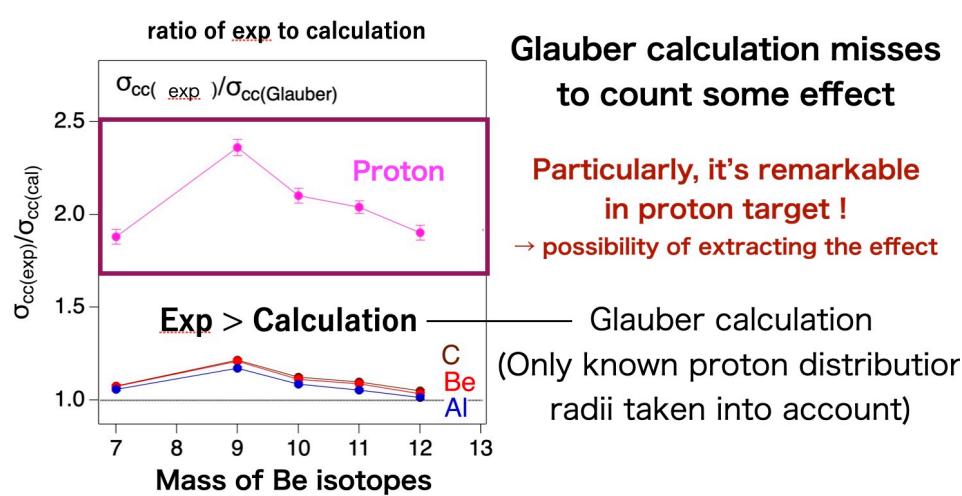
Gen Takayama, Mitsunori Fukuda, Miki Fukutome, Yurika Ohtani, Yoko Kimura, Kensaku Matsuta, Mototsugu Mihara, Masaomi Tanaka, Daiki Nishimura, Hiroyuki Takahashi, Sora Sugawara, Takashi Ohtsubo, Norihide Noguchi, Kazuya Takatsu, Maya Takechi, Mizuki Ogose, Takeshi Suzuki, Takayuki Yamaguchi, Takuji Izumikawa, Shinji Sato, Shigekazu Fukuda, Atsushi Kitagawa



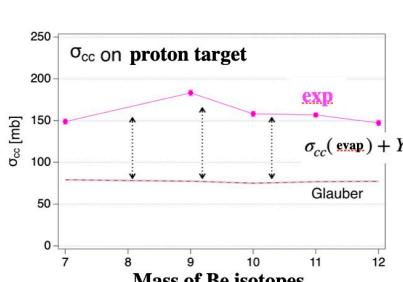
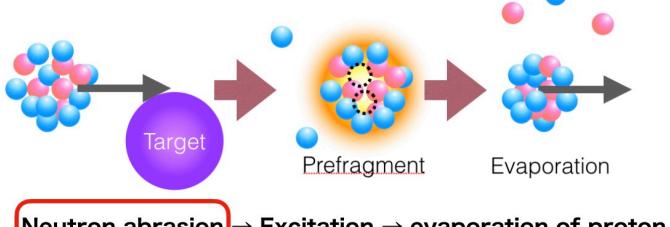
3. Results of charge changing cross section : σ_{cc}



4. Experimental data vs Glauber calculation

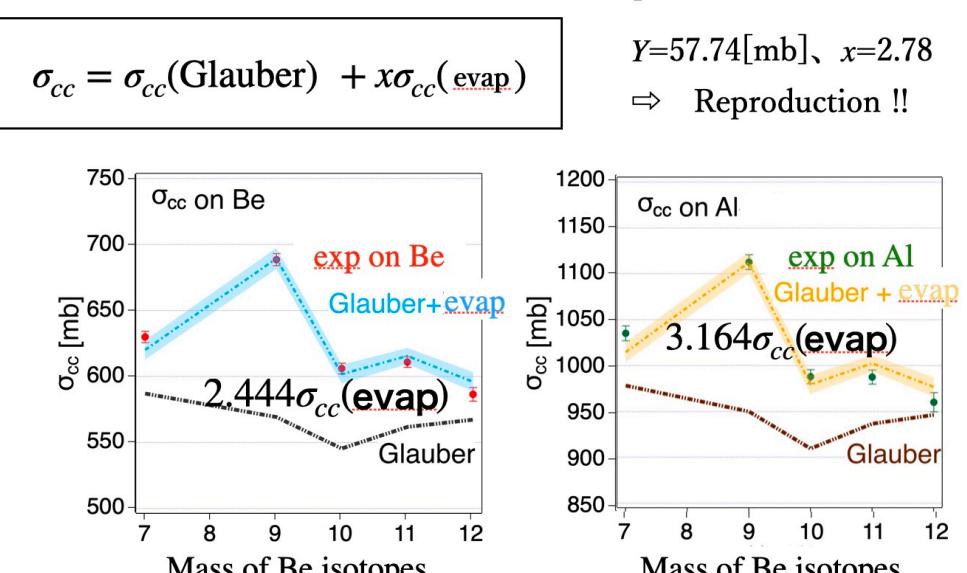
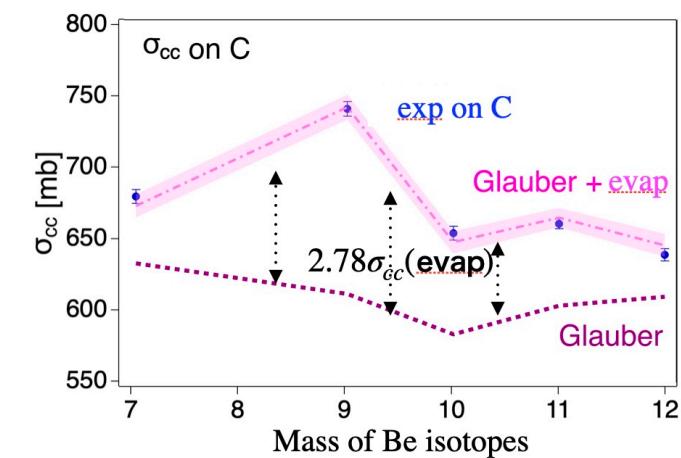


5. Proton evaporation effect



σ_{cc} to proton target
⇒ Extraction of proton evaporation cross section
 $\sigma_{cc}(\text{on p}) = \sigma_{cc}(\text{Glauber}) + \sigma_{cc}(\text{evap}) + Y$
 Y : Free parameter

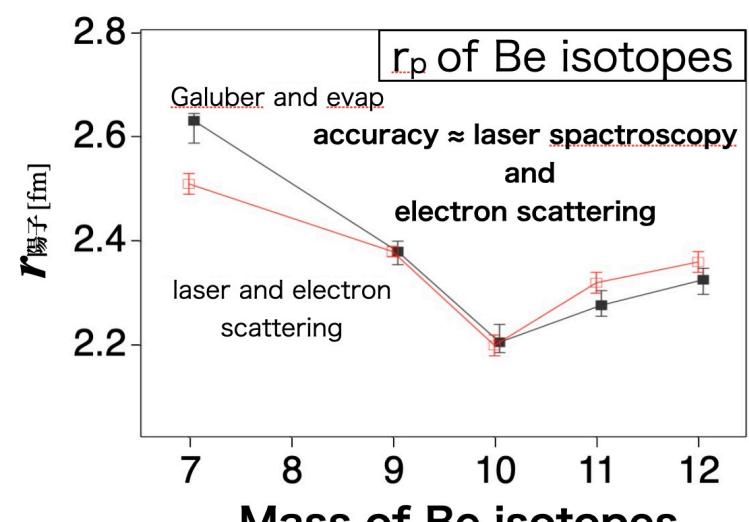
6. Reproduction of experimental σ_{cc} (with proton evaporation effect)



[using parameters]

parameter for reproducing experimental σ_{cc}
⇒ only Y (common for all targets), and x (each target)!
only 4 parameters
⇒ Reproducing 15 data ! !
(σ_{cc} for each isotope, and each target × 3)

7. Reproducing r_p



Result of reproducing r_p by using parameters which fits σ_{cc} for all experimental data.

Summary

- Measurement of σ_{cc} for ^{7-12}Be
- σ_{cc} to proton → proton evaporation cross section
- → Reproducing σ_{cc}