Contribution ID : **77** Type : **Poster**

TOTAL REACTION CROSS SECTIONS MEASUREMENT

Monday, 2 October 2017 15:10 (170)

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Preliminary results of measurements of the total reaction cross sections σR for weakly-bound 6,8He, 8,9Li, 7,9,12,14Be nuclei at energy range (25-45) A MeV 27Al and 208Pb targets are presented. The secondary beams of 6,8He, 8,9Li, 7,9,12,14Be were produced by bombardment of the 22Ne (40 A MeV) and 11B(33 A MeV) primary beam on Be (89 mg/cm2) target and separated by COMBAS fragment-separator. In dispersive focal plane a horizontal slit defined the momentum acceptance as 1% and a wedge degrader of 200 μm Al was installed. The Bρ of the second section of the fragment-separator was adjusted for measurements in energy range (25-45) A MeV. The secondary products were detected by a telescope consisting of two Si ΔE detectors 300 μm, 1000μm and E-detector, which consisted of nine CsI/Tl granules.

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Session Classification : Poster session and coffee&reception