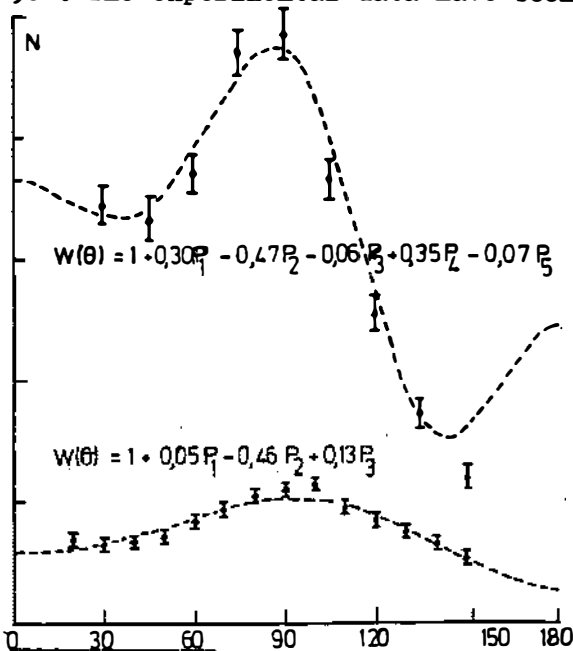


$^{19}\text{F}(t,p)^{21}\text{F}$ REACTION AT LOW ENERGIES

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The $^{19}\text{F}(t,p)^{21}\text{F}$ reaction has not yet been measured at low t energies. The 1,5 MeV Cockcroft-Walton accelerator of the "Boris Kidrič" Institute was used for production of the t beam. The beam analysis was made by an electrostatic analyser. The target was 0,05 mg/cm² thick CaF₂ evaporated on nickel foil. Silicon surface barrier counters were used as detectors. The angular distributions of three proton groups (p_0, p_1, p_2) have been measured at two energies, 0,9 and 1,1 MeV. All angular distributions showed marked asymmetry about 90°. The experimental data have been analysed in terms of



Legendre polynomials. Figure 1 represents the angular distributions of p_1 proton group at 0,9 and 1,1 MeV. It seems reasonable to conclude that the $^{19}\text{F}(t,p)^{21}\text{F}$ reaction proceeds via a compound nucleus mechanism.

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