

ON THE DETERMINATION OF πN PHASE SHIFTS FROM
ISOSPIN CONSTRAINTS AND FIXED t ANALYTICITY⁺

by

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This seminar deals with the problem of the determination of the phase of the πN scattering amplitudes from observable quantities (differential cross-sections and polarizations). Its aim is to present, following Ref.[1], conditions on the amplitudes under which a unique construction of the phase can be achieved in some neighbourhood of the forward direction, using constraints coming from analyticity at fixed momentum transfer (t), isospin invariance and unitarity.