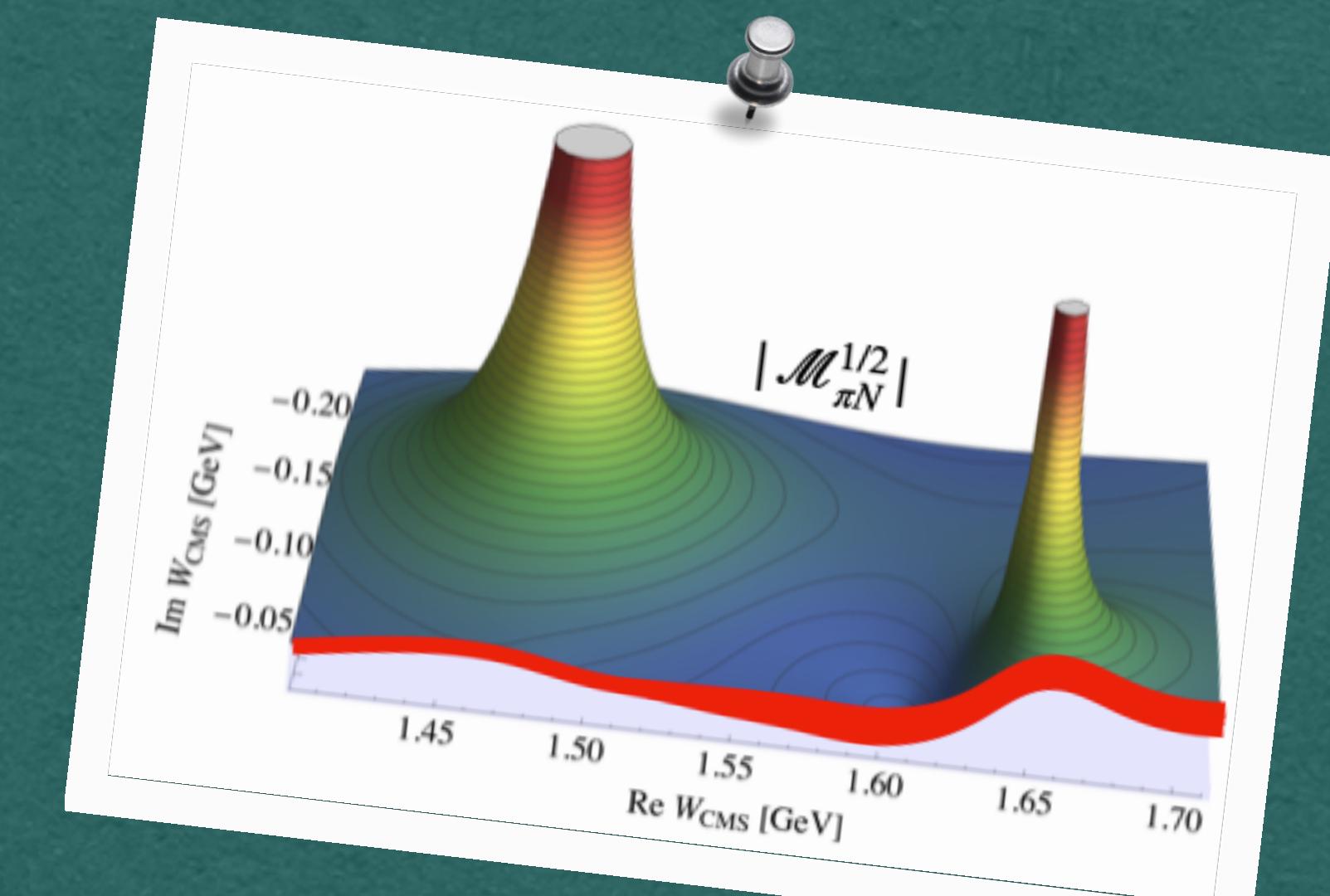
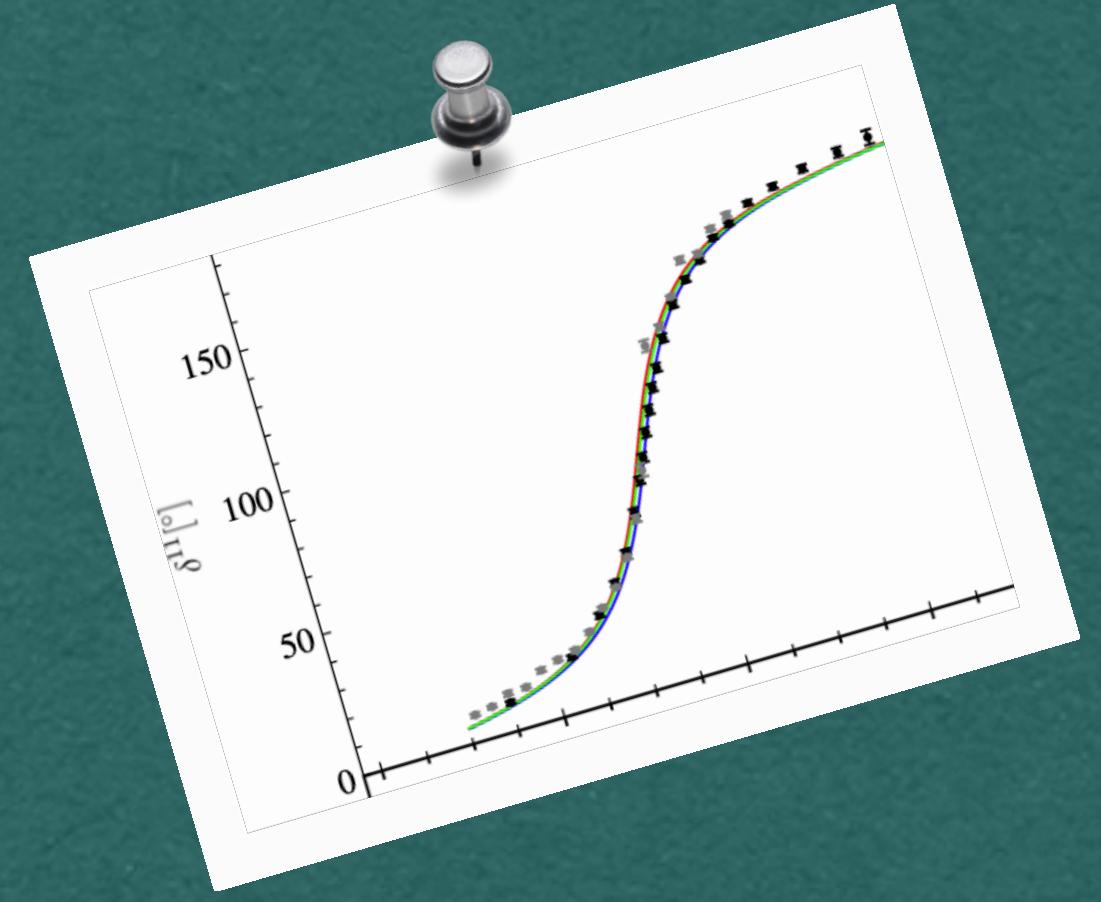
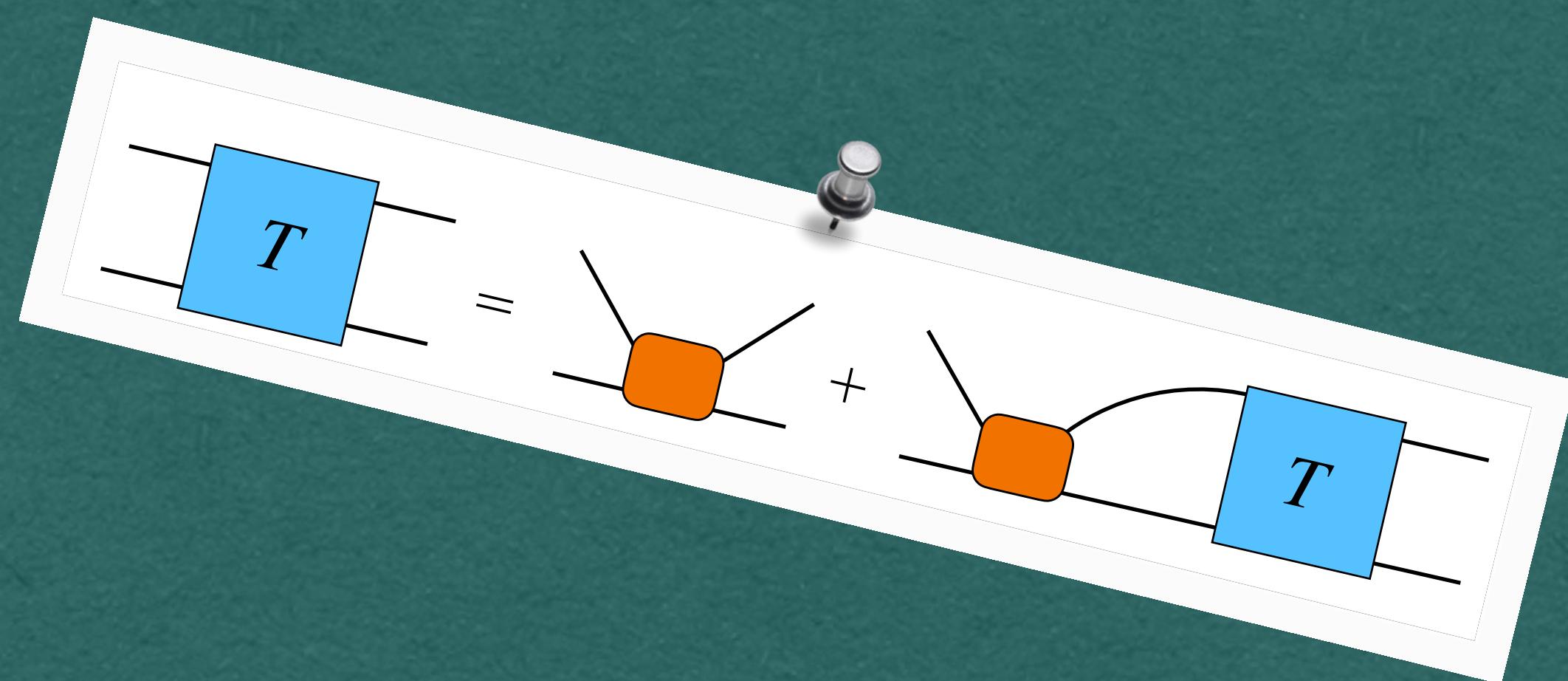


PROJECT 28

model building and fits for particle scattering



GOALS

1. Concept of a particle as a resonance

- mass, width, experimental observations...

1 week

2. Concept of a scattering amplitude (T)

- Mathematical/physical constraints
- Resonances from scattering amplitudes – Riemann sheets

1-2 weeks

3. Hands-on application

- 2-pion scattering data, degrees of freedom, partial waves, isospin.
- Modeling of scattering amplitude (parametrisation, chi² test, ...)
- Fits to data – resonance parameter estimation

1-2 weeks