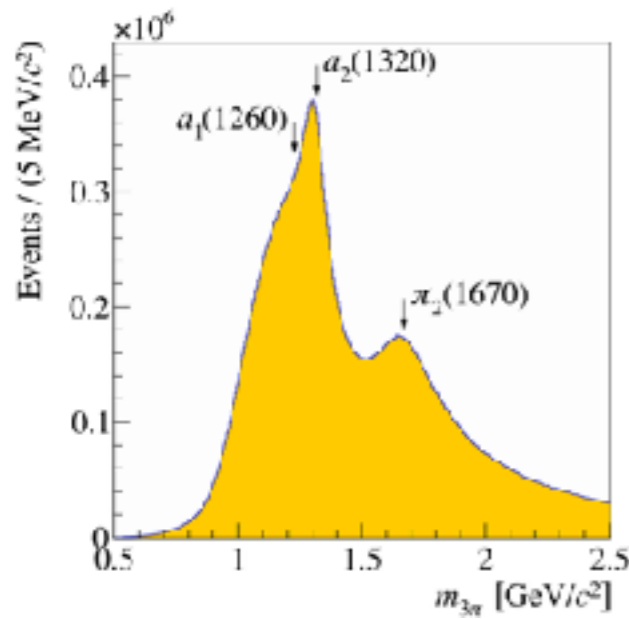
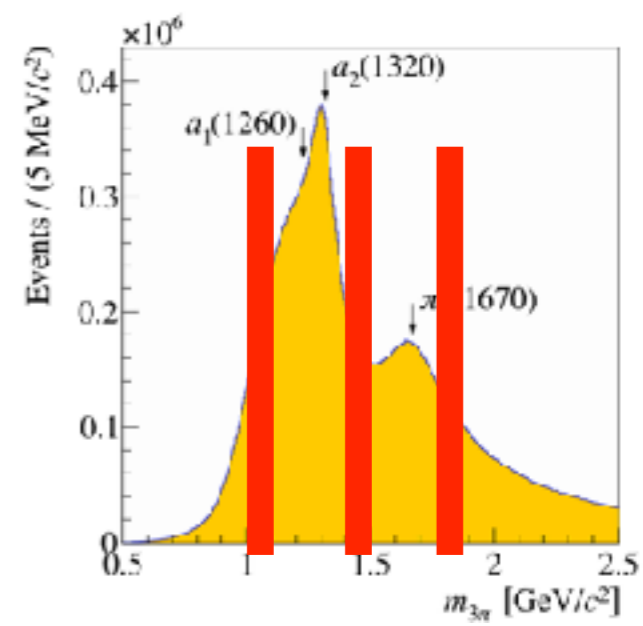


Discussion : Amplitude analysis

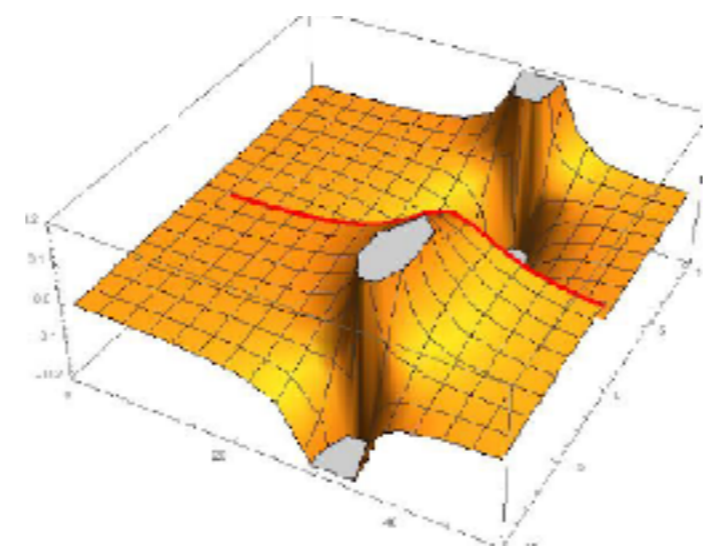


Nature: real axes



QCD

?? ??



Physical interpretation: complex planes



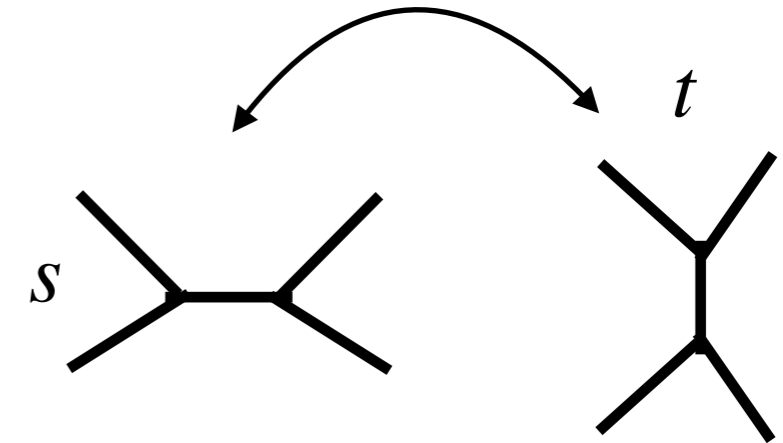
What are reaction amplitudes ?

2^{N-1} functions of $3N - 10$ Mandelstam variables

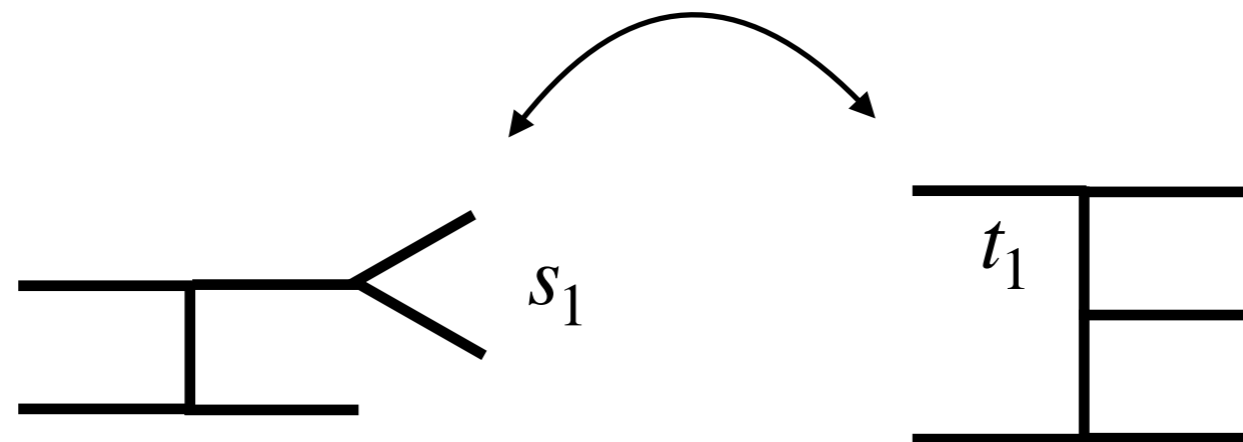
Analyticity in s, t, \dots , crossing symmetry, unitarity

Singularities fixed by QCD (unknown)

$$2 \rightarrow 2, 1 \rightarrow 3 : A = A_{\lambda_1, \lambda_2, \lambda_3, \lambda_4}(s, t)$$



$$2 \rightarrow 3 : A = A_{\lambda_1, \dots, \lambda_5}(s, t_1, t_2, s_1, s_2)$$



S: Top-bottom vs bottom-top approaches can complement each other and help exploring nature of resonances

W: Small community, fragmentation of efforts.

O: New experimental discoveries, progress in lattice simulations lead to exciting (interdisciplinary) research opportunities.

T: What is the big picture (why should one care about # sheet)?

