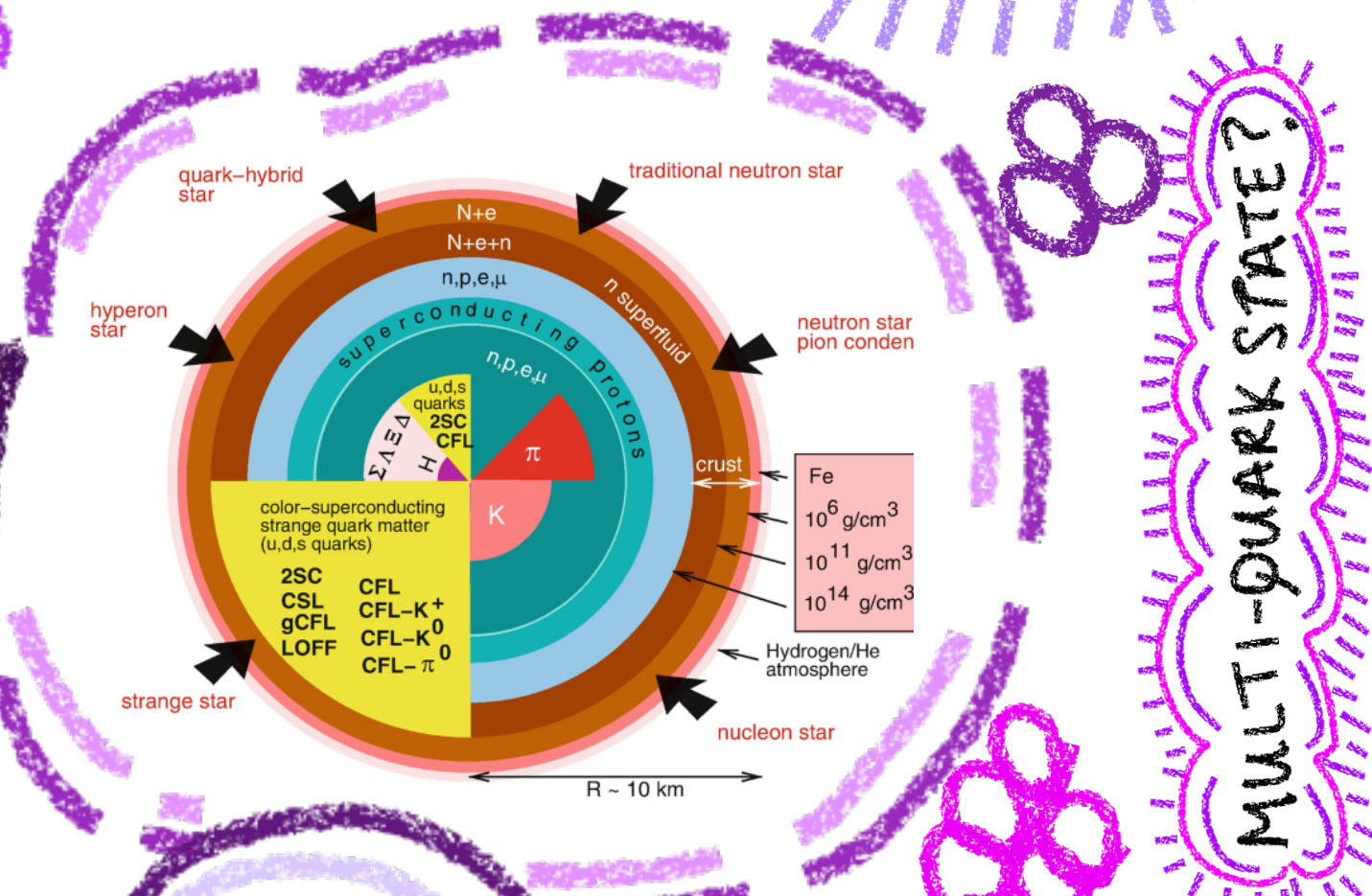
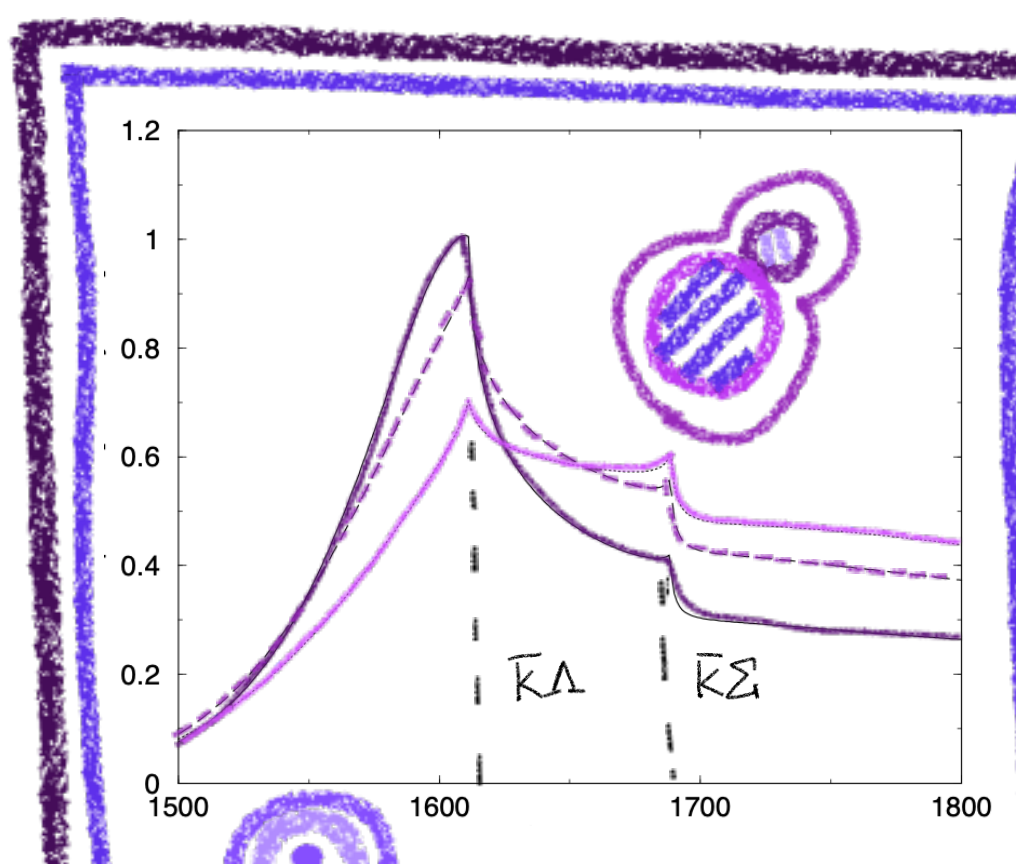


ELUCIDATING STRANGENESS WITH ELECTROMAGNETIC PROBES

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SUPERVISORS: DR. M. BASHKANOV, DR. N. ZACHARIOU

WHY LOOK INTO CASCADE BARYONS?

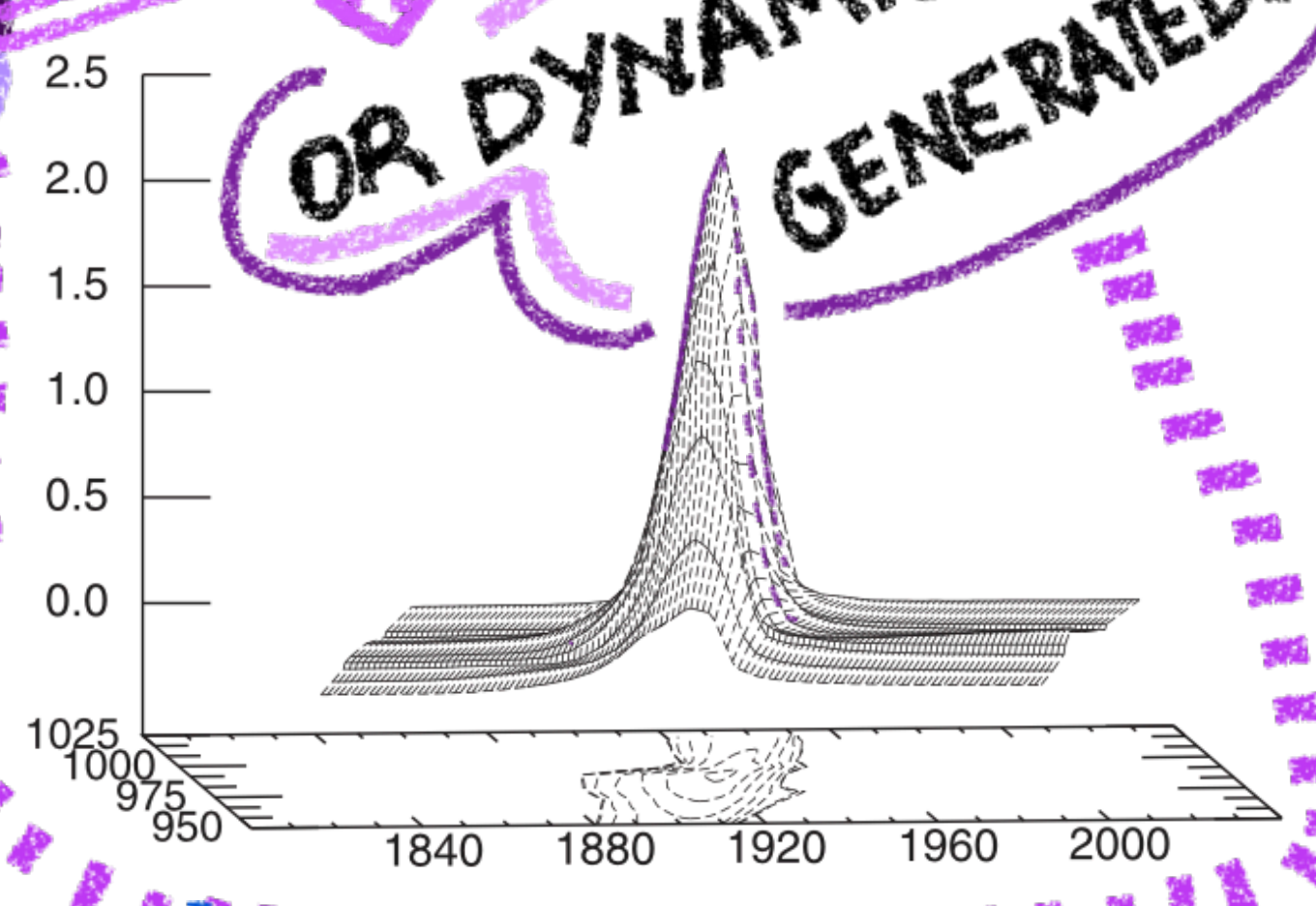
Current Particle	Current Status	Previous Mass	Previous Status	Mass from MPS (MeV)
$\Xi(1318)$	****	1320	****	1320 ± 6
$\Xi(1530)$	****	1530	****	1541 ± 12
$\Xi(1620)$	*	1630	**	
$\Xi(1690)$	***	1680	**	
$\Xi(1820)$	***	1820	***	1822 ± 6
$\Xi(1950)$	***	1940	**	
$\Xi(2030)$	***	2030	***	2022 ± 7
$\Xi(2120)$	*	2120	*	
$\Xi(2250)$	**	2250	*	2214 ± 5
$\Xi(2370)$	**	2370	**	2356 ± 10
$\Xi(2500)$	*	2500	**	2505 ± 10



MULTI-QUARK STATE?

THE HYPERON PUZZLE

OR DYNAMICALLY GENERATED?

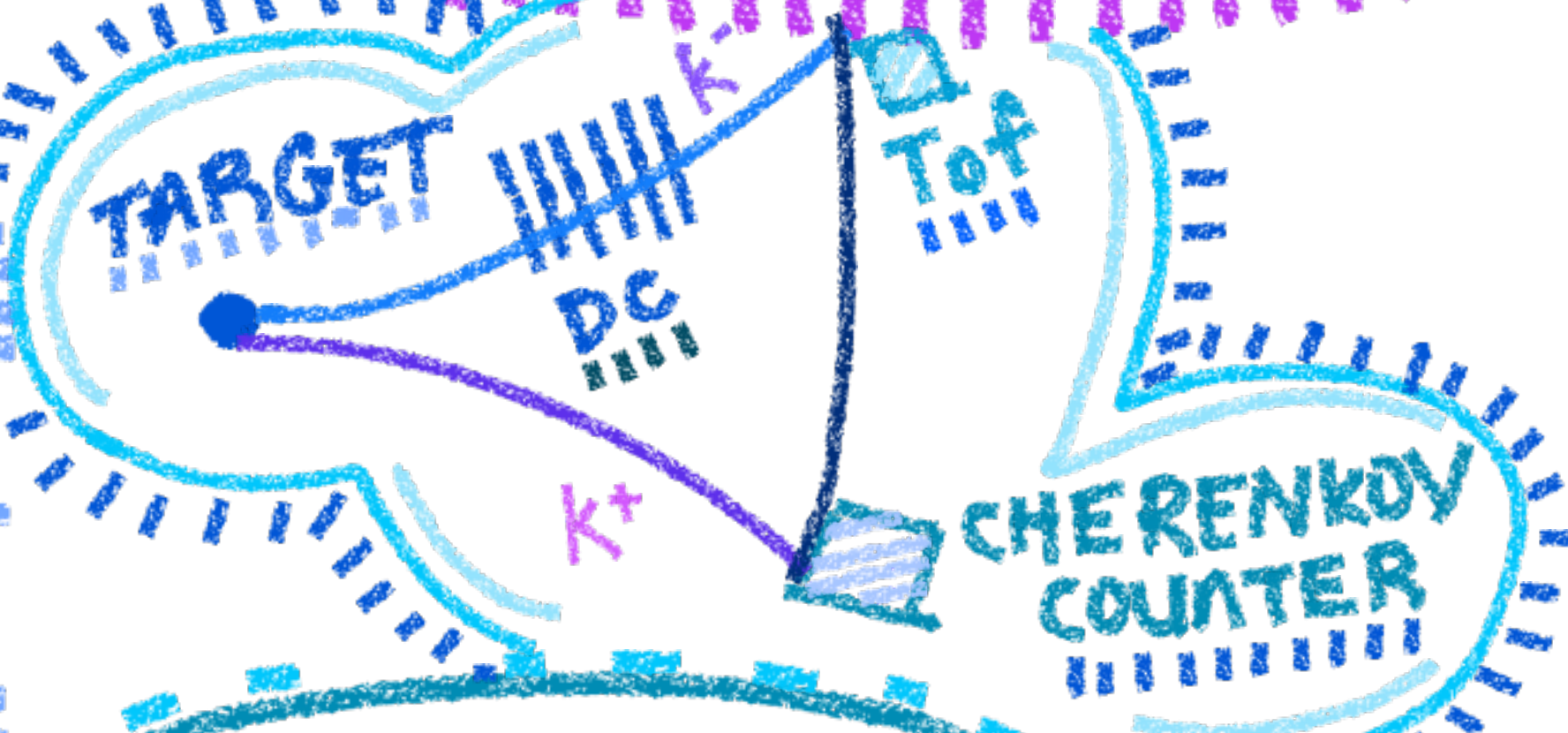
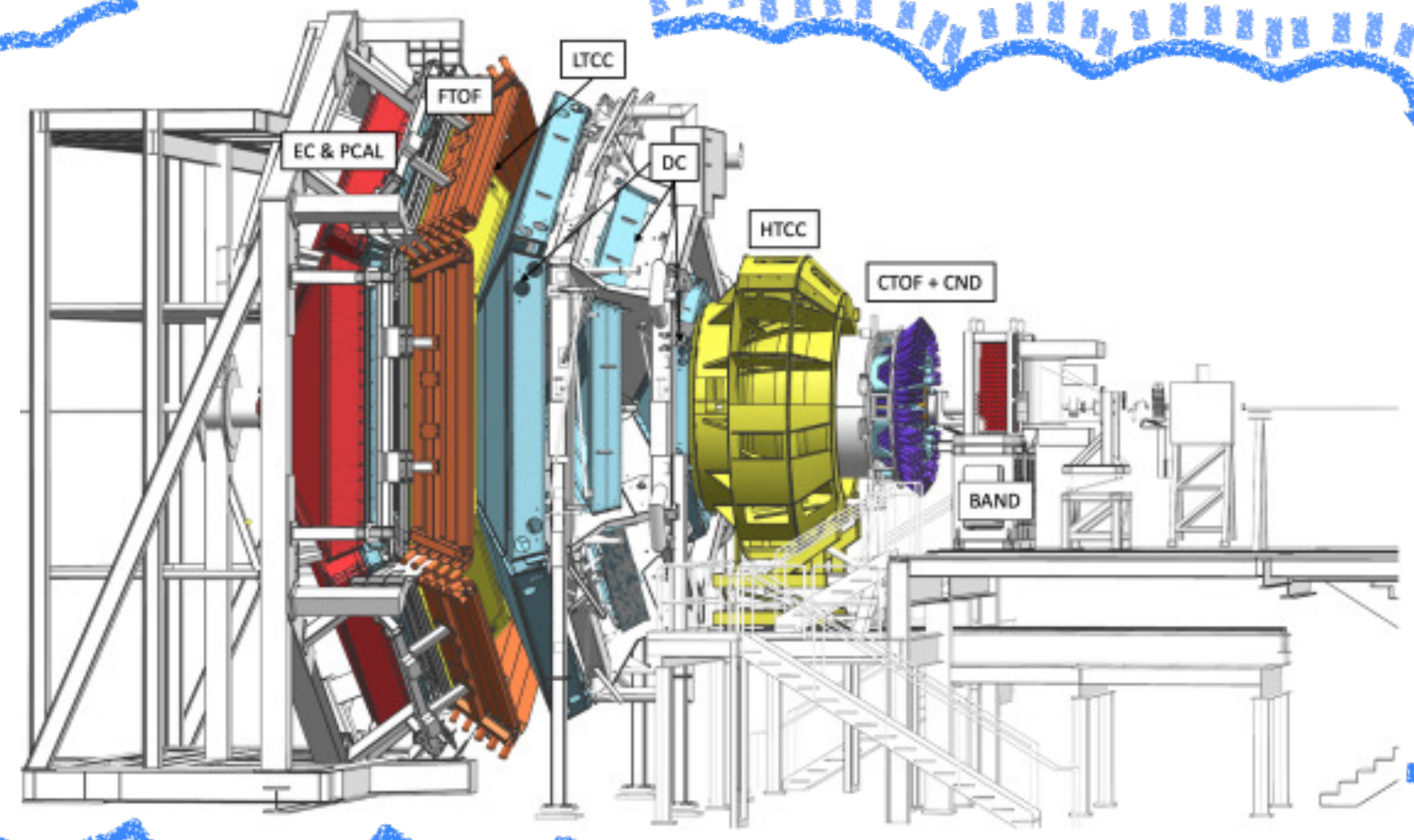


NO PROGRESS IN 42 YEARS

NOW 1981

ONLY 6 STATES ESTABLISHED OUT OF 44 PREDICTED...

THE CLAS12 SPECTROMETER



- HIGH PRECISION
- HIGH STATISTICS
- BEAM ENERGY UP TO 10.6 GeV

FIRST LOOK AT DATA

