

Opening

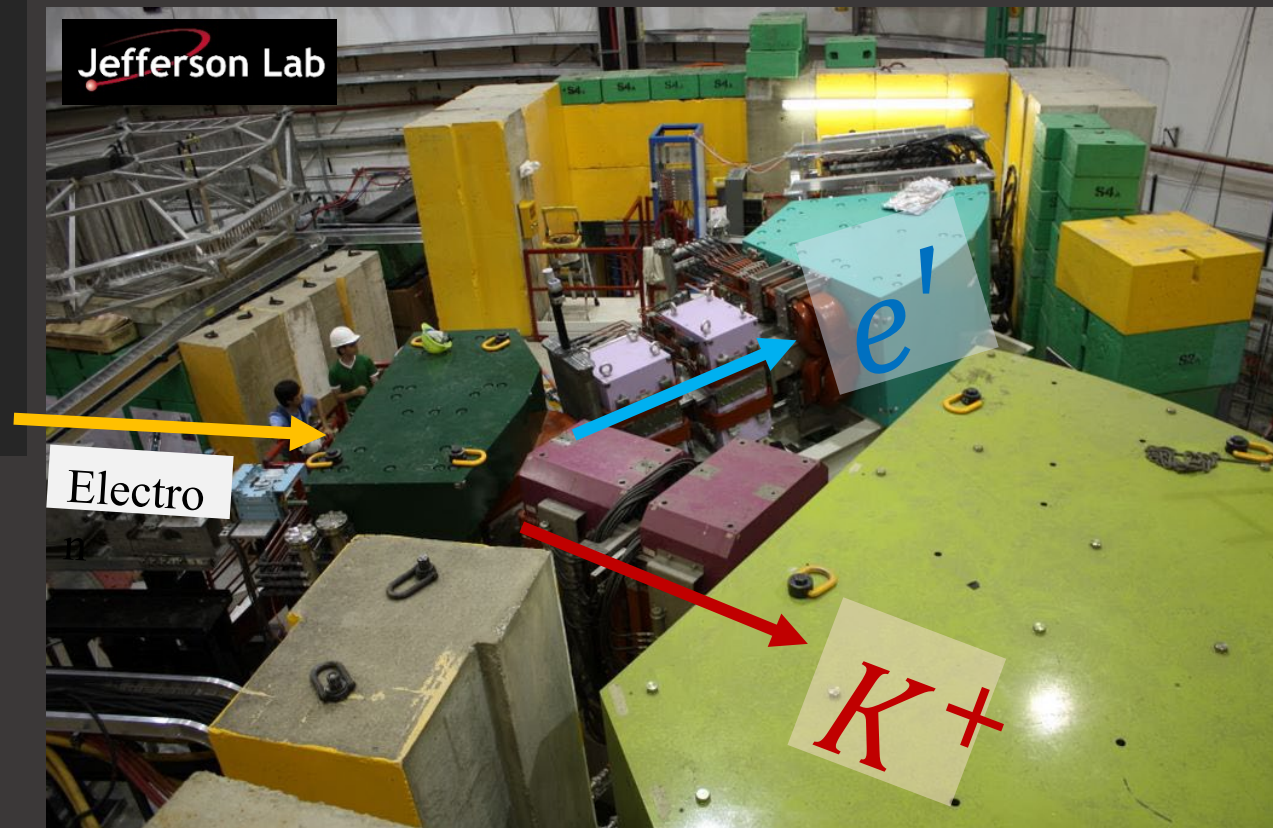
Graduate School of Science, Kyoto University

Toshiyuki Gogami

March 22, 2024

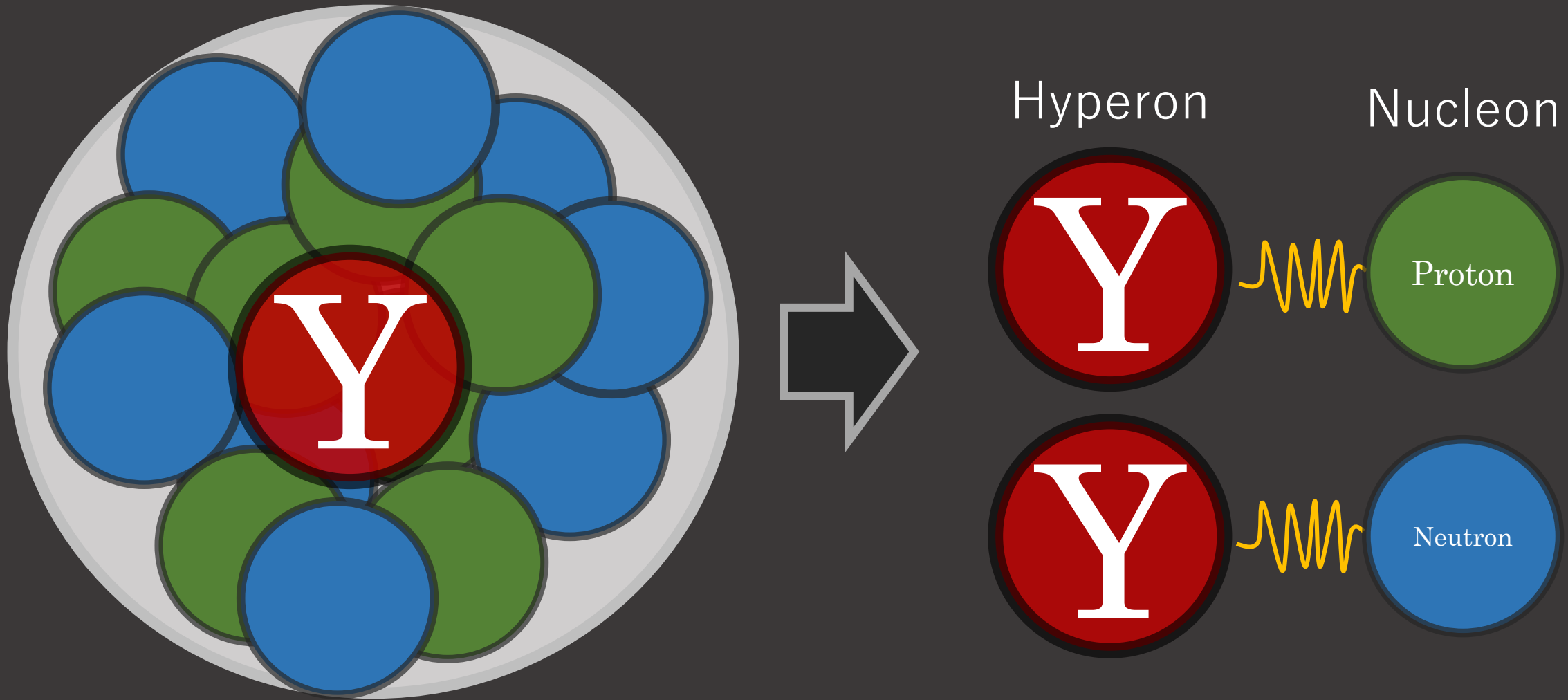


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KYOTO UNIVERSITY

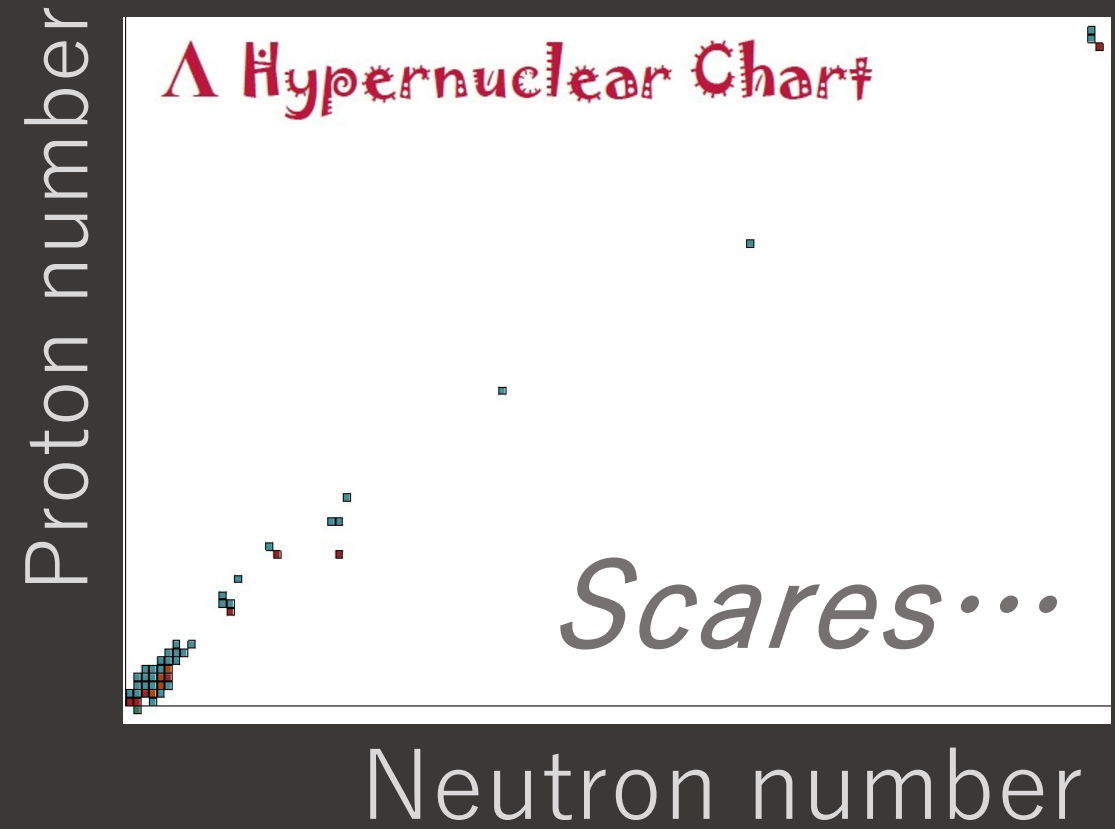
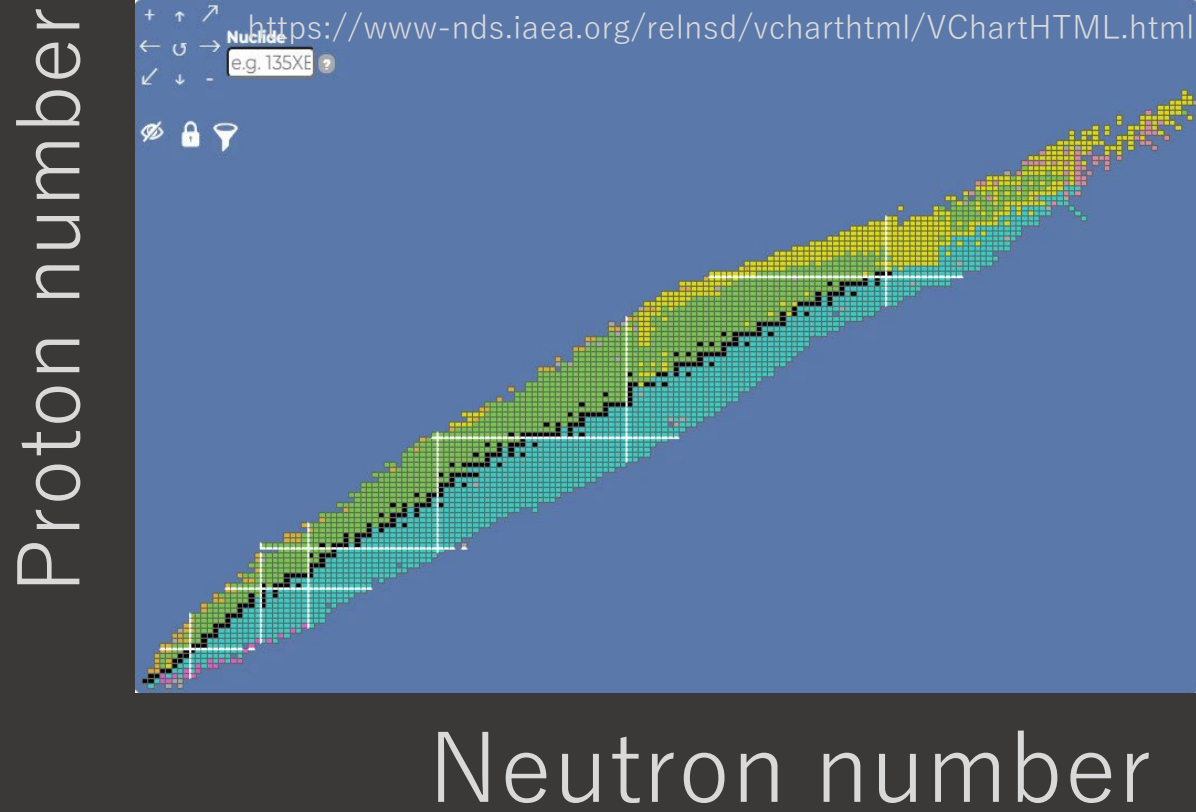


HES and HKS spectrometer at Hall C (2009)

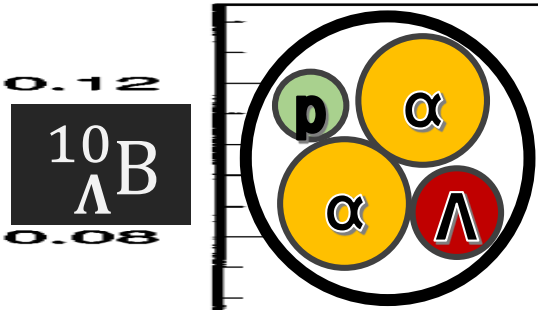
Baryon Interaction Study via Hypernuclear Spectroscopy



Limited data for Hyperon interaction study



→ *New data are awaited!!*

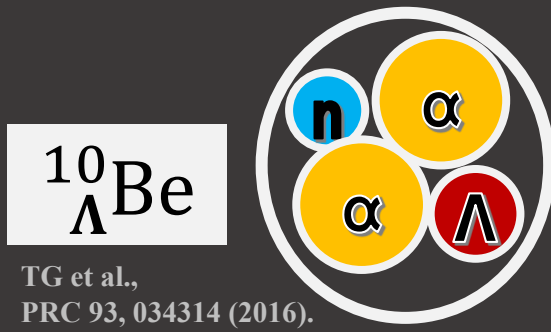


$(\pi^+, K^+) @\text{KEK, Japan}$

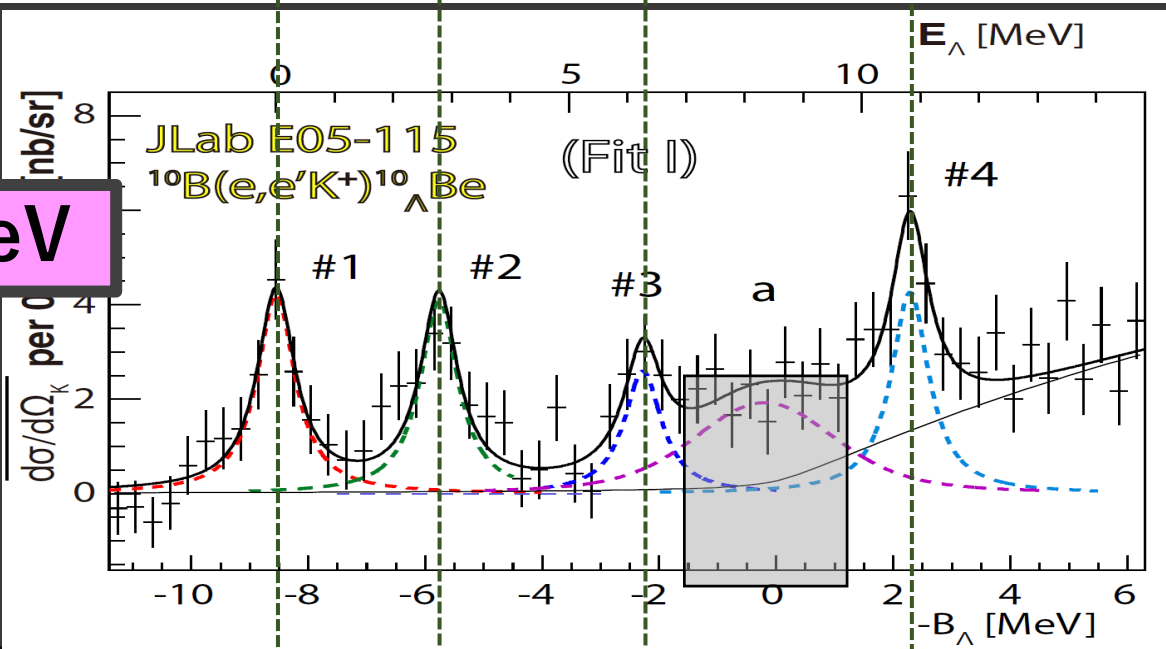
FWHM = 2.2 MeV

3x better

FWHM = 0.8 MeV



TG et al., PRC 93, 034314 (2016).

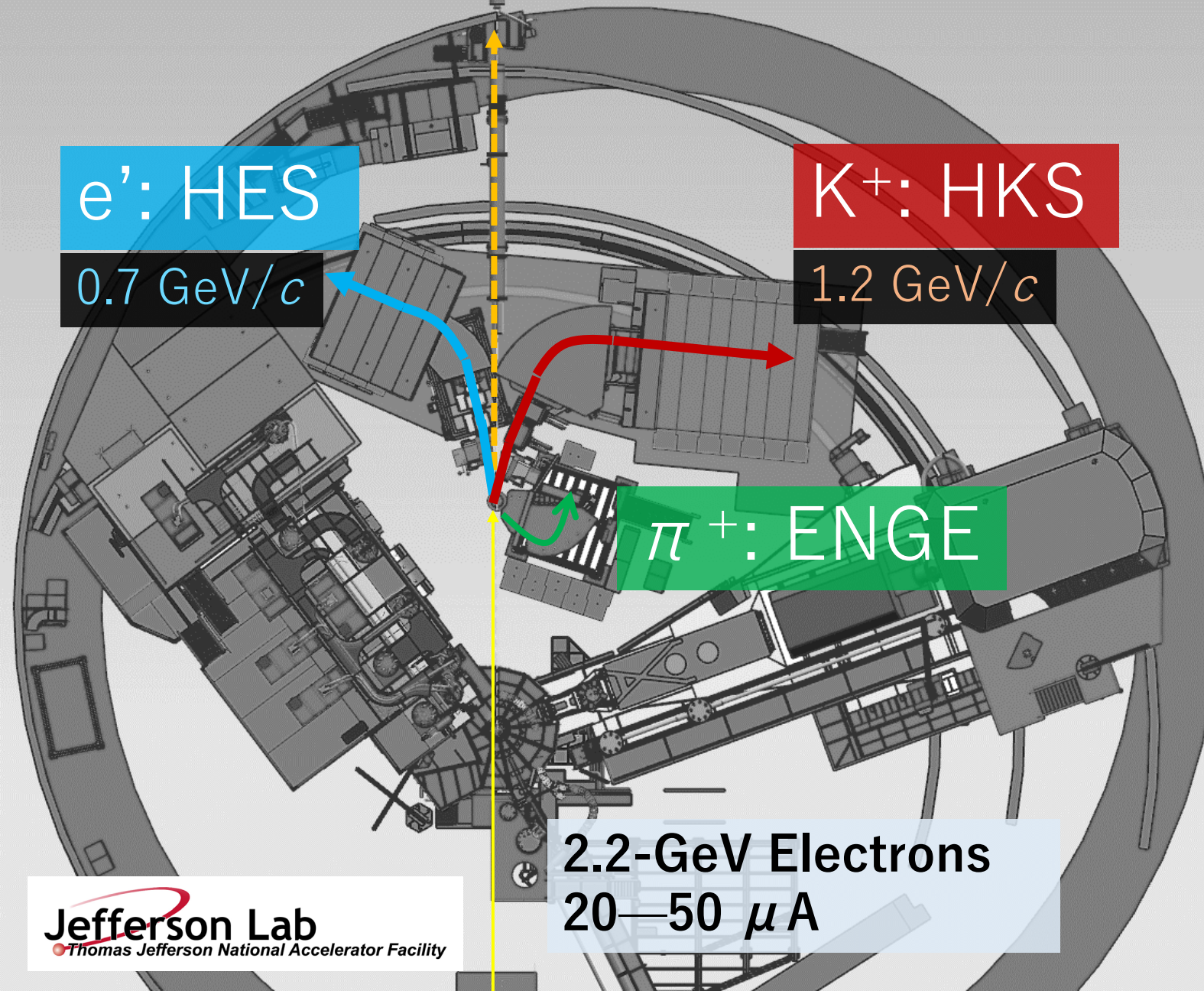


T. Hasegawa et al., PRC 53, 3 (1996).

Unique experiment at JLab

↓

The **world best** resolution and accuracy



Jefferson Lab
 Thomas Jefferson National Accelerator Facility

Let's realize the world leading strangeness nuclear physics experiment at JLab!!

- E12-15-008
 - (E12-19-002)
 - E12-20-013
 - LOI12-23-011
 - LOI12-23-013
 - LOI12-23-016
- } **Approved**
- } **Proposing this year**

Today

- Sharing updates
- Discussion for ERR in Nov 2024
- (Experiment from Jan 2027)

13:00	Opening	5m
13:05	JLab status and schedule Speaker: Mark Jones (Jefferson Lab)	15m
13:20	Project update Speaker: Prof. Satoshi Nue Nakamura (The University of Tokyo)	15m
13:35	Enge for decay pion spectroscopy Speaker: Prof. Sho Nagao (The University of Tokyo)	15m
13:50	Geant4 simulation Speaker: Mr Tatsuro Ishige (Tohoku University)	15m
14:05	Break	15m
14:20	Target Speaker: David Meekins (Jefferson Lab)	15m
14:35	DAQ and electronics Speaker: Alexandre Camsonne (Jefferson Laboratory)	15m
14:50	Experimental setup and design Speaker: Steven Lassiter (JLab)	15m
15:05	Beam (energy monitoring (SLI)) Speaker: Joe Gubeli	15m
15:20	Break	15m
15:35	Free Discussion	55m

Agenda

<https://indico.jlab.org/event/822/>