

HKS/HES collaboration meeting

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Date : March 10 - 11, 2010

Place: JLab, CEBAF CENTER (L102/104)

Many Thanks
to All the Collaborators
For Successful Data Taking Runs
After More Than Decade Preparation Time
Particularly, to Those who were on-site
During the Beam Time of E05-115 in 2009

Issues of this collaboration meeting (or I want to discuss and/or hear)

March 10, 2010

– E01-011 Analysis issues

- Final spectra with mass scale and cross section
- Seva code and its consequences on the final spectra
- Hypernuclear mass scale -- absolute scale and linearity
- Evaluation of systematic errors both for mass scales and cross sections

– E01-011 Publication strategy and process

– Future schedules and plans in the new phase

- Hall A/C experiments before shutdown
- Pi-spectroscopy etc....

- MAINZ
- J-PARC....

Issues of this collaboration meeting (or I want to discuss and/or hear)

March 11, 2010

– **Analysis strategy and status of E05-115**

- Summarize and share lists of acquired data and all the relevant experimental conditions
- Browse and share basic data and spectra (Singles rates, trigger rates, data size, TDC&ADC spectra, hit distributions, multiplicity distributions, particle ID, background origin.....)
- Analysis algorithm for the E05-115 high-multiplicity data
- Matrix tuning upgrade ?

– **End Run Party of E05-115**

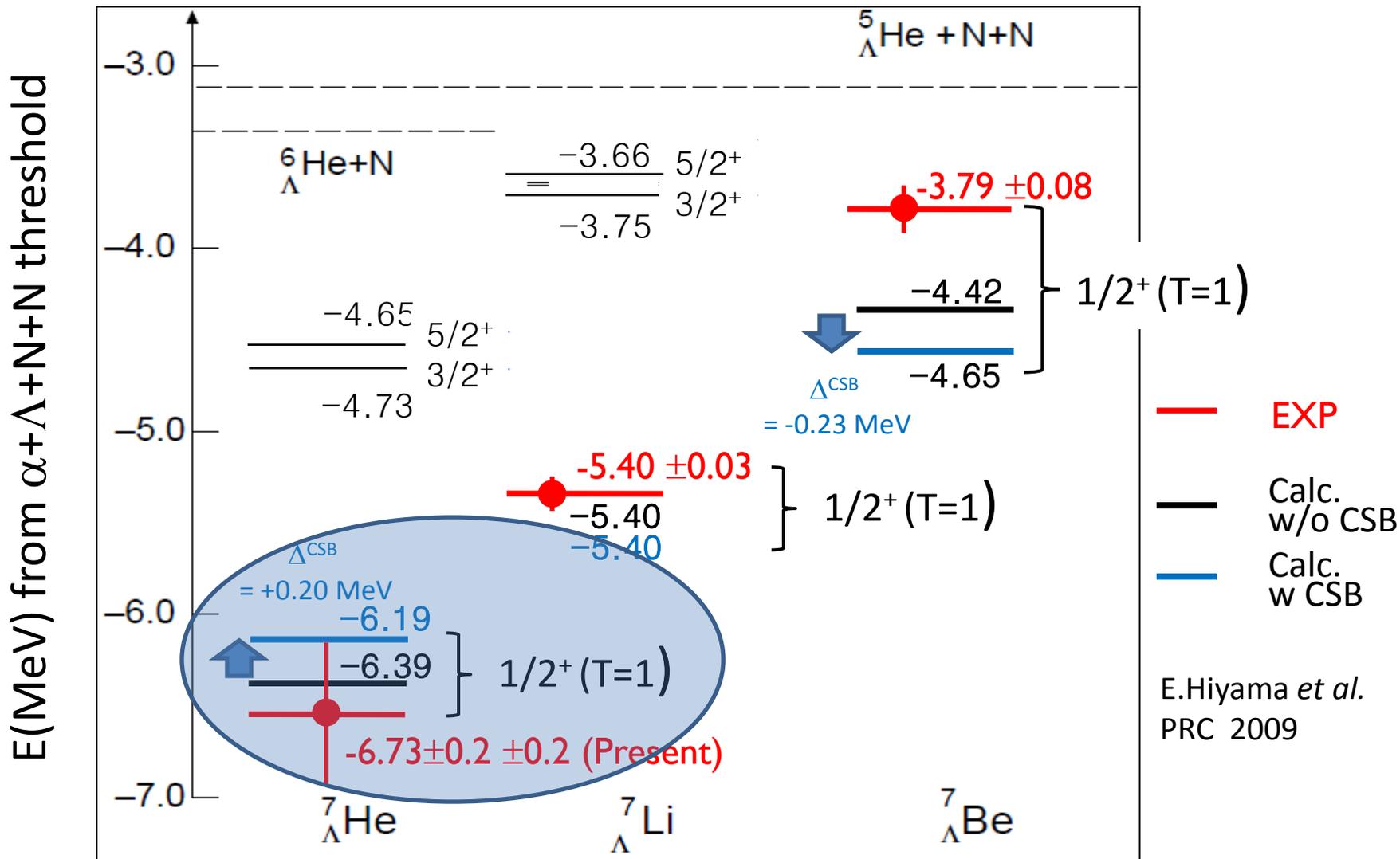
- Our Tradition

Publication Strategy of E01-011 papers

- ${}^7_{\Lambda}\text{He}$ paper (with ${}^{12}_{\Lambda}\text{B}$) Letter
 - Test of charge symmetry breaking in A=7 iso-triplet hypernuclei ?
 - HIYAMA
 - First report on high-resolution hypernuclear spectroscopy around 400 keV (FWHM)
- ${}^{28}_{\Lambda}\text{Al}$ + all the other targets Full Paper
- NIM HKS and Tilt method Full Paper
 - Proof of principle
 - HKS field map measurement and analysis
 - Achieved resolution
- Some associated technical papers ?
 - Matrix tuning procedure,
 - Backing coil
- Fission paper ? Full Paper

Comparison with the 4-body cluster model calc.

Charge Sym. Breaking Effect?



Publication Strategy of E05-115 papers (candidates)

- Precision spectroscopy of p-shell Λ hypernuclei Letter
 - ${}^7_{\Lambda}\text{He}$, ${}^9_{\Lambda}\text{Li}$ ${}^{10}_{\Lambda}\text{Be}$
- ${}^{52}_{\Lambda}\text{V}$ + with ${}^{12}_{\Lambda}\text{B}$ + all the other targets Full Paper
- NIM for HES/HKS system Full Paper
 - Design principle,
 - General setup including beam line(pre-chicane, dump line)
 - HES spectrometer system,
 - Analysis procedure for high-multiplicity events
 - Yield rates
- Some associated or specialized technical papers

Conference Talks

- June HUG lecture Nue
- July INPC
 - Invited talk Reinhold
 - Contributions due March 15
- August Gordon conference Maruta

Future Collaboration Meetings

- JSPS seminar/Hall A&C joint meeting
 - September @ MAINZ ?
- Collaboration meeting
 - November or December @ Sendai
 - February or March @ JLab
- Others
 - Each group meetings
 - On-site meetings
 - TV conference