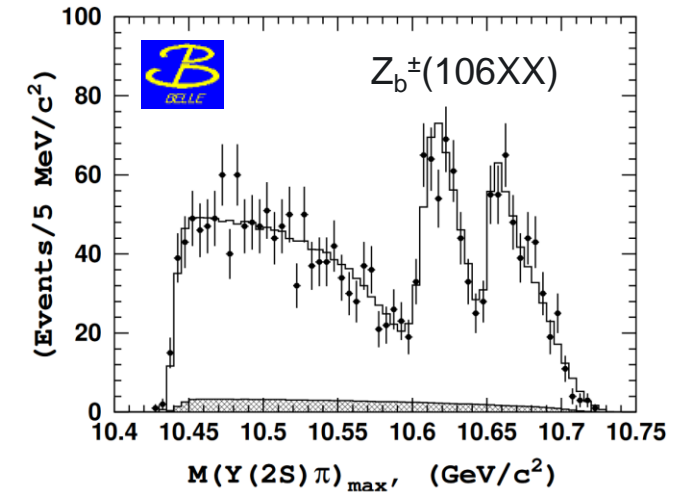
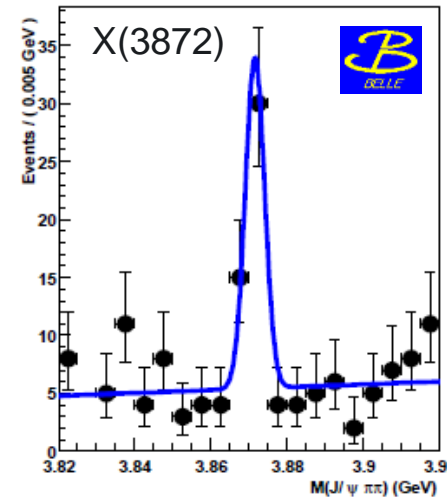


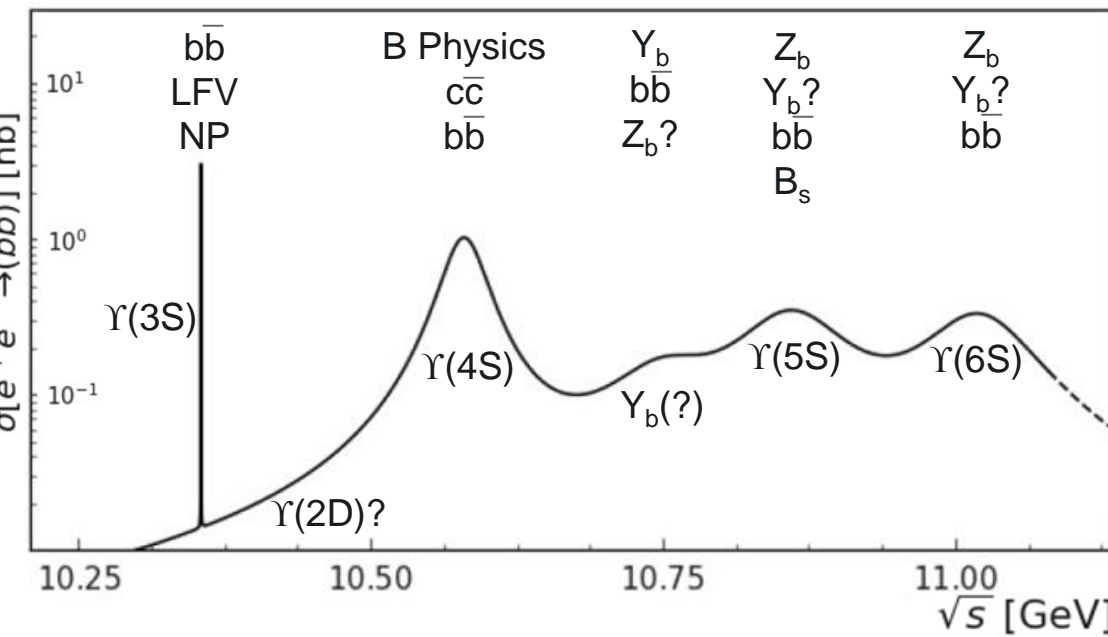
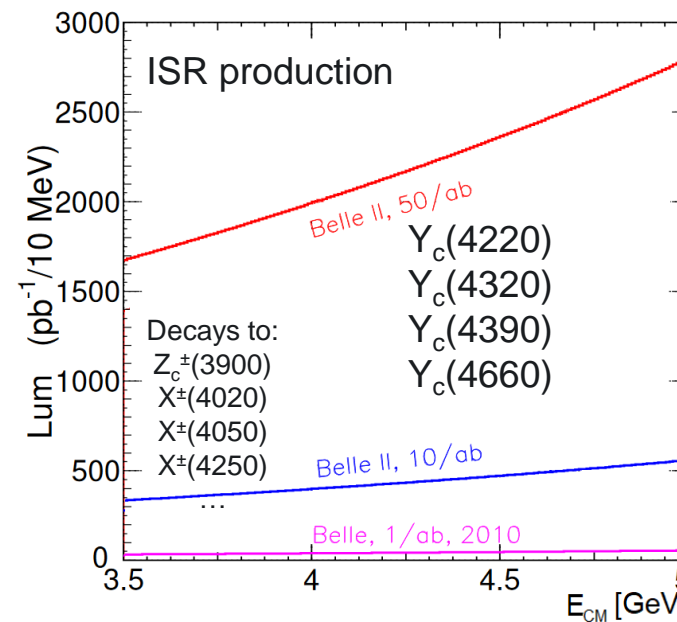
# Summary of Proposed Belle II Activities: Charmonium, Bottomonium, and XYZ states



- Belle opened a new era in  $\psi$ -onia studies
- Belle II is the next generation B-Factory
  - ~1000 members (~100 US @ 18 institutions)
  - ~10-year program ongoing since last year



- Expectations
  - 50x luminosity
  - B decay, direct/ISR,  $\gamma\gamma$ ,  $c\bar{c}c\bar{c}$
  - $\sqrt{s}$  up to ~11 GeV
  - Advantage with neutrals



- Unique opportunities for  $c\bar{c}$ ,  $b\bar{b}$ , XYZ physics!

[Belle II Physics Book, Ch. 14, arXiv:1808.10567 \(2018\)](#)  
e.g.: [QWG 2019 Talk \(K. Chilikin on behalf of Belle II\)](#)