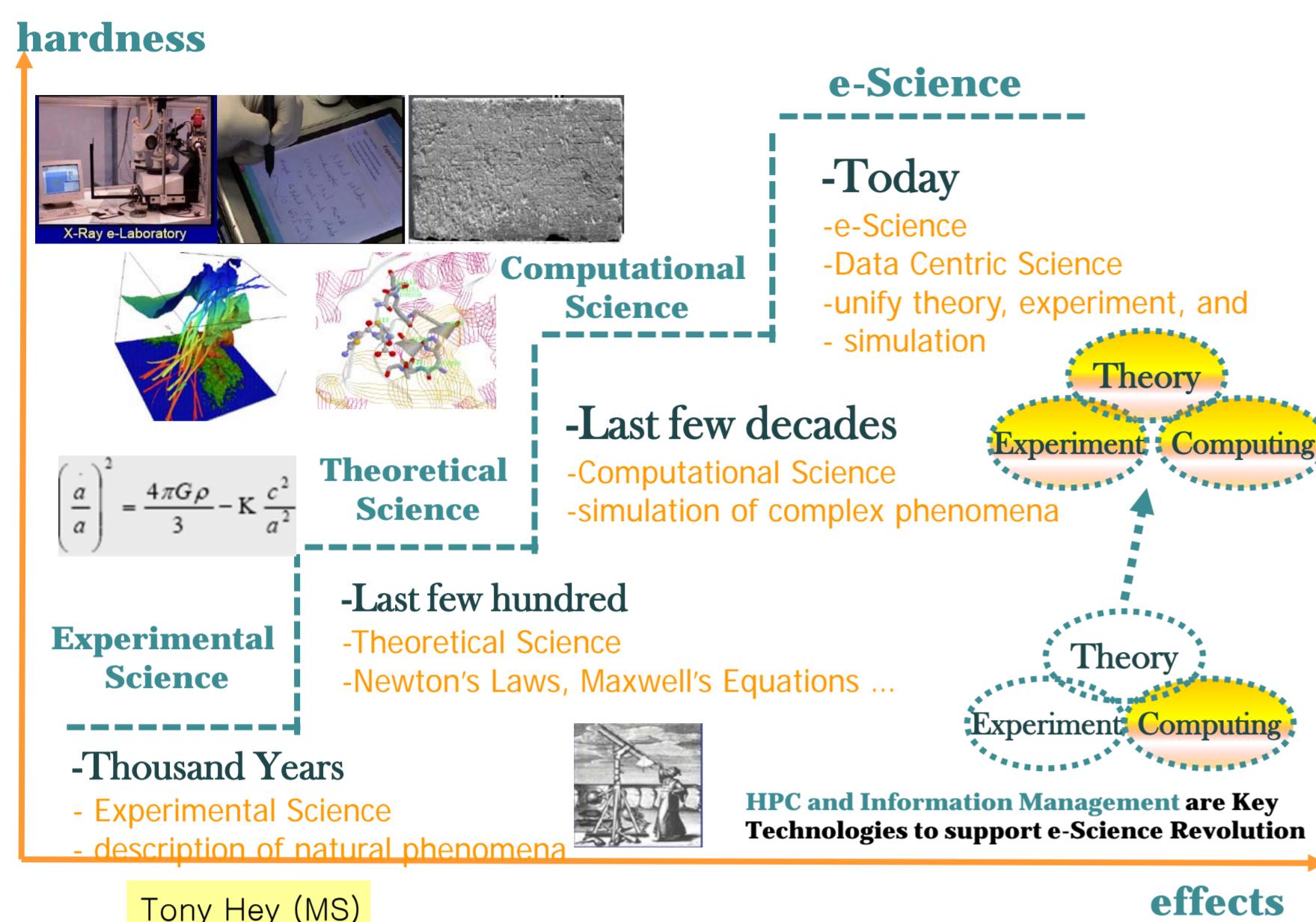


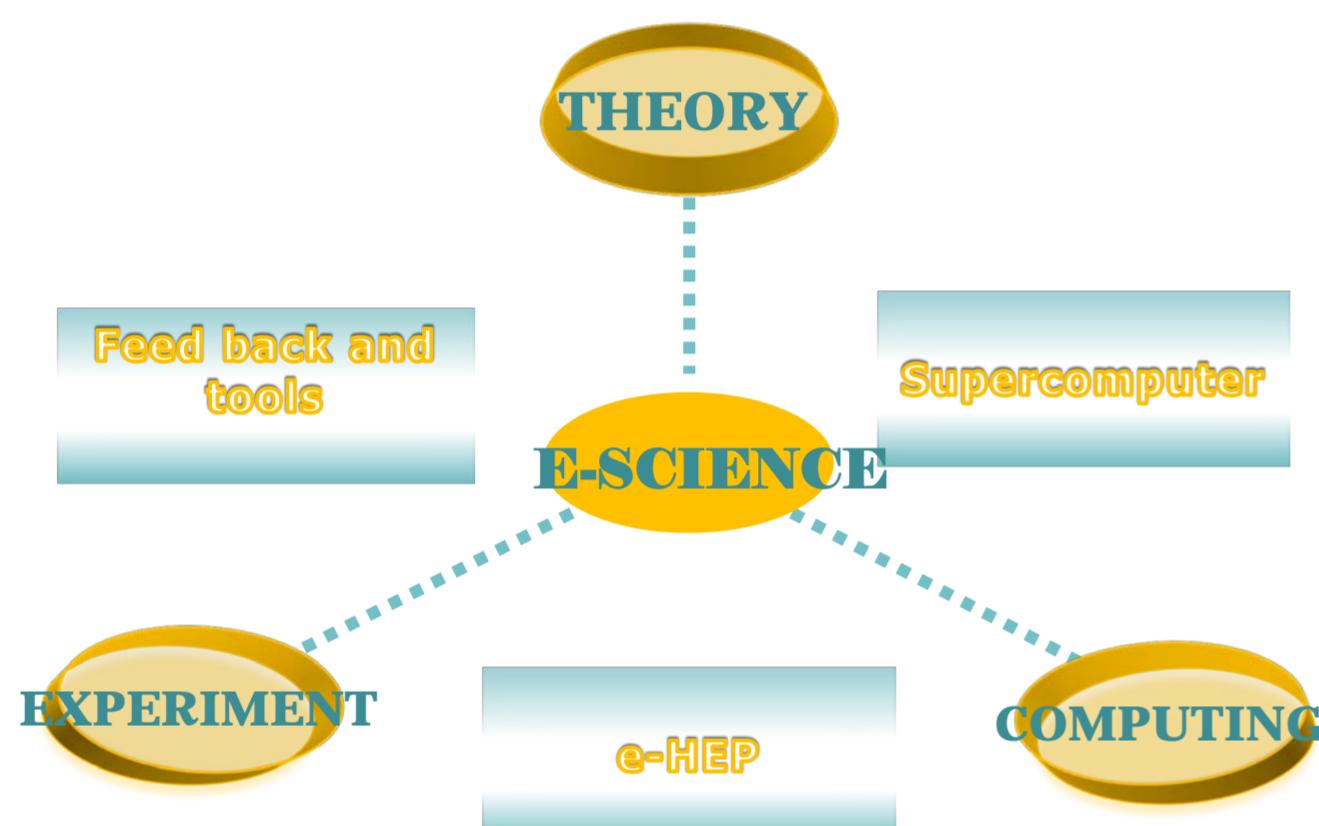
A study of particle physics based on e-Science paradigm

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e-Science paradigm

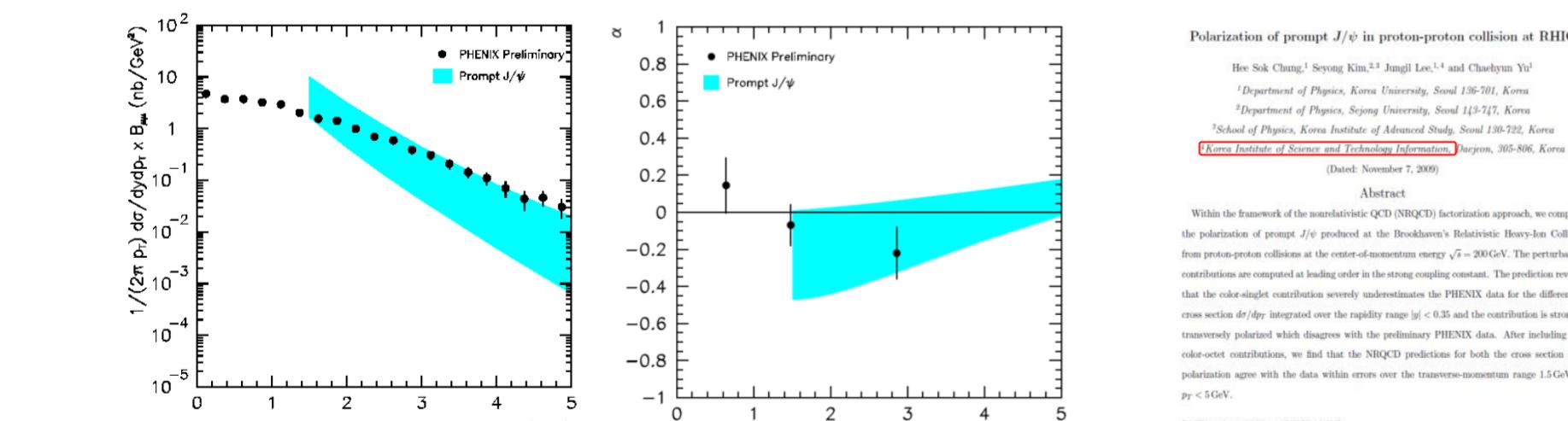


Goal

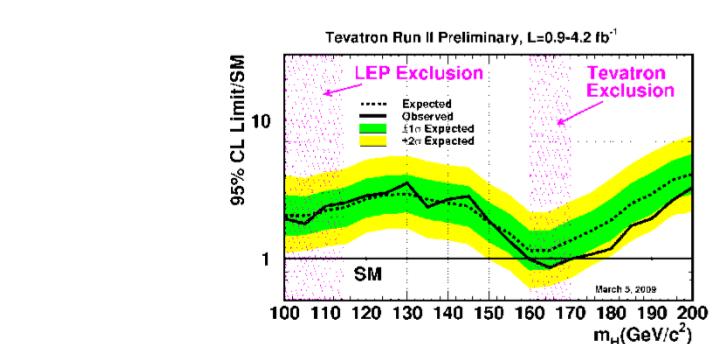


♦ To study Standard Model and beyond it

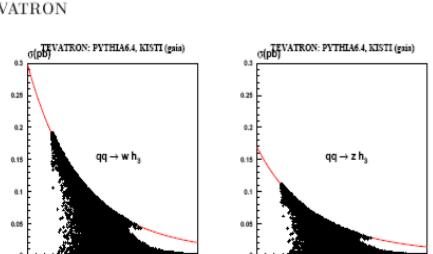
Theory-experiment



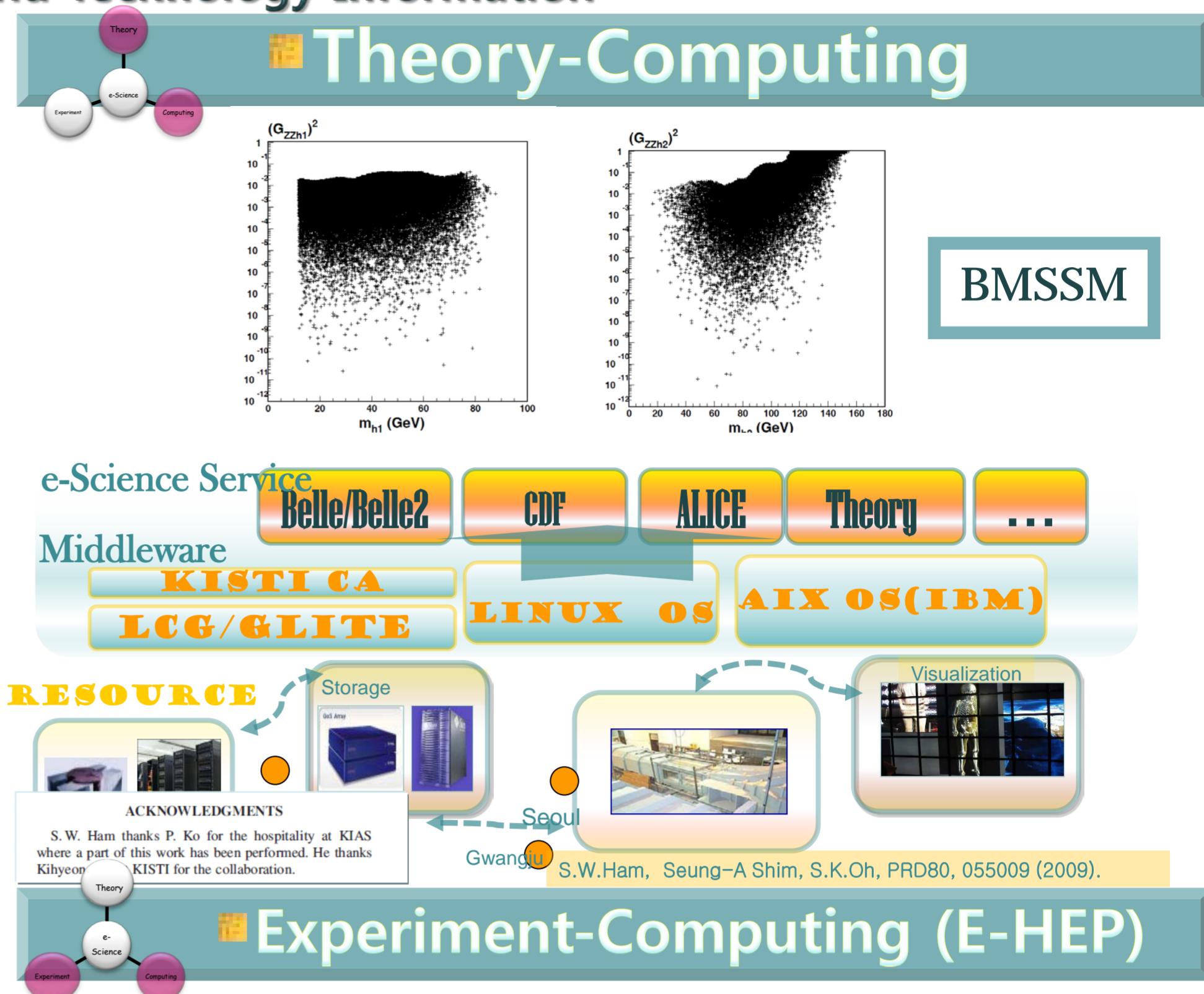
- ♦ J/ψ cross-section and polarization (submitted to PLB)
- ♦ RHIC experiment
- ♦ Theoretical prediction (submitted to PRD)



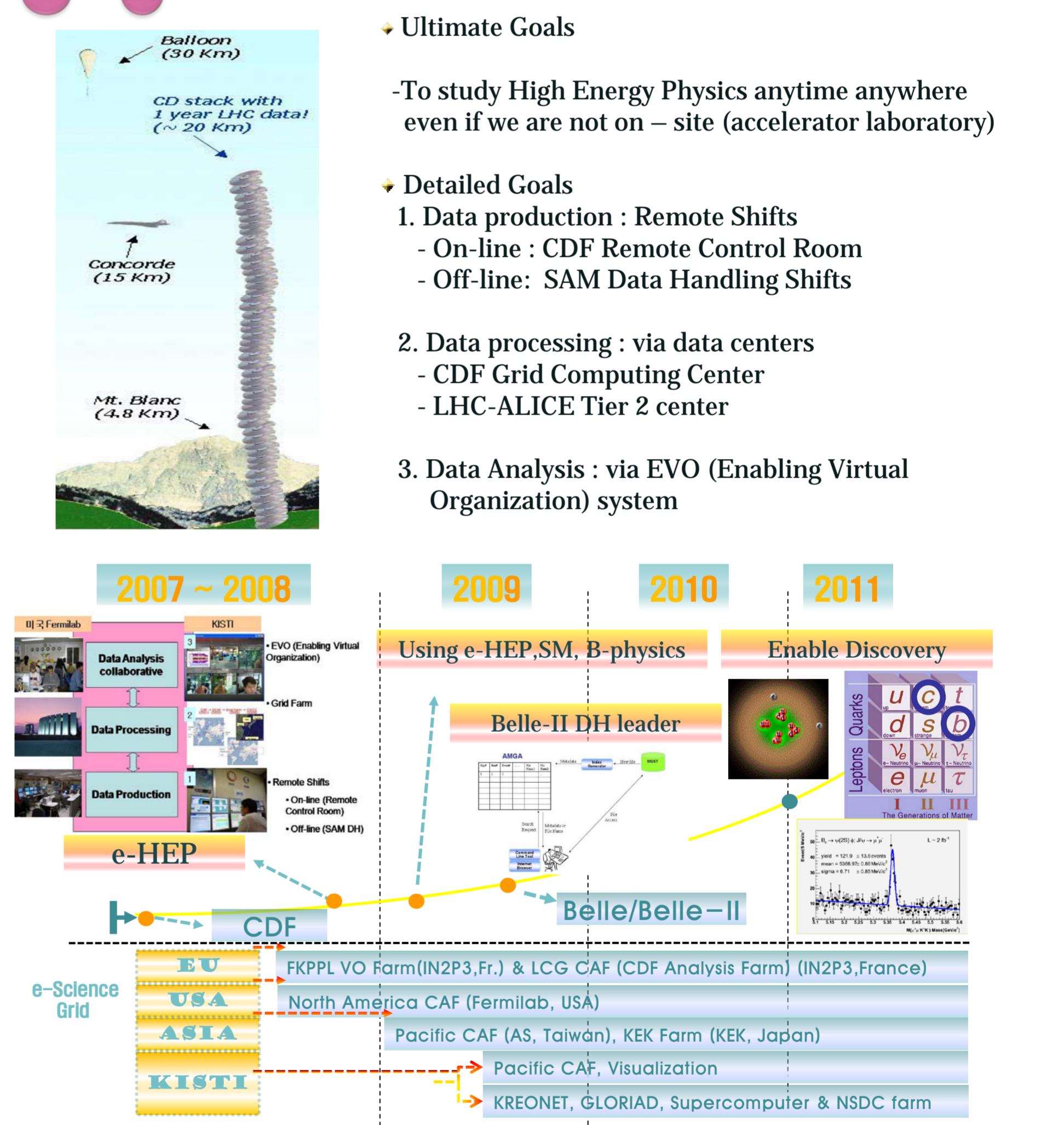
4. Higgs Production of the BMSSM with spontaneous CP violation at TEVATRON



- ♦ Exclusion region on SM Higgs boson mass at 95% C.L. at Tevatron (Upper Figure).
- ♦ The BMSSM by using the exclusion potential of the SM Higgs boson mass.
- ⇒ Under way



Experiment-Computing (E-HEP)



Summary

- ♦ The concepts of e-Science:
 - To study physics anytime and anywhere
 - Fusion research of Experiment - Computing – Theory
- ♦ We have applied both concepts to High Energy Physics
- ♦ We hope to extend these ways to other areas of physics