Sartre Plans

MDB +
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Reminder: physics goal

- **Sartre:**
  - Yield/Acceptance for coherent $J/\psi \rightarrow ee$ (or $\mu\mu$?) & $\phi \rightarrow KK$ @ JLEIC energies.
    - Note: T,U acceptance cuts were $p_e, p_K > 1$ GeV/c & $2^\circ < \theta < 178^\circ$ ($|\eta| < 4$). Advantage to relax these?
  - Ratio of coherent/incoherent $\sigma$ vs. $t$ for ePb (eCa)

- **BeAGLE**
  - Incoherent $J/\psi$ & $\phi$ samples. Can we veto them? Do we need to detect $A' = A - 1$ in order to veto them?
Finalizing sartre

• Fix DGLAP code – Pia – it should:
  • Not crash
  • Be fast (tables)
  • Have the right physics
• IPSat model fits to HERA ep diffractive data
  • Refit – Pia & Heikki
  • Install in sartre – Thomas
Testing sartre using ep

- tableGenerator setup for ep – Tobias
  - Needs to use latest table structure
  - Needs runcard for ep
- Confirm grid points – Mark & Tobias
- Generate ep tables at JLAB: Vasiliy & Guohui
  - These points are MUCH faster than ePb (x500?)
  - Multiple points in one job??
- Compare sartre to HERA data – Thomas
Running sartre for ePb

• New choice of grid points – Mark & Tobias & Thomas & Heikki & Pia
• Generate ePb tables at JLAB: Vasiliy & Guohui
  • \((J/\psi & \phi) \times (b_{\text{Sat}} & b_{\text{NonSat}})\)
• Make diffractive physics yield plots – Liang
• Make GEMC-compatible text output files to examine acceptance for \(J/\psi, \phi\) – Liang
• Examine JLEIC acceptance – Guohui et al.
Physics yield plot (eAu 20x100GeV)
Further sartre work

- At JLAB, if time permits: Add Ca
- At JLAB and/or BNL:
  - Add $\gamma$(DVCS) & $\rho$ for Pb & Ca
- At BNL: High $W^2$ tables for PbPb UPC @ LHC