

# JLab FY09 straw plan

Bob Rimmer

# JLab FY09 straw plan

- Robust S0 program with at least **30 standard** EP cycles on new batch of cavities with T-mapping (~\$1M) (**9-cell cavities**) (includes ?)
- Non-standard 9-cell tests (BCP large grain, “microEP”, Cornell cavities etc.) **# of cycles ?**
- S0 single-cell program **~30 cycles**
  - Q-slope/ quench characterization
  - Ethanol rinsing/other methods
  - Particulate studies
  - Alternative polishing methods (e.g. mech. Polishing, BEP, VEP)
- Active cooling upgrade for EP system
- Optical inspection system (home built or Kyoto type)
- Guided repair/remediation
- ACD:
  - 2 more 9-cell “plug compatible” large grain cavities (LL?)
  - Cryomodule and component value engineering
  - Next generation EP facility (“Integrated cavity processing” ICP)
- Basic R&D *with university and industry partners*
  - Surface Roughness, contamination control, EP characterization, hydrodynamic modelling, baking studies, material studies, origins of losses, defect identification and characterization, etc.
- DC gun program (separate budget)