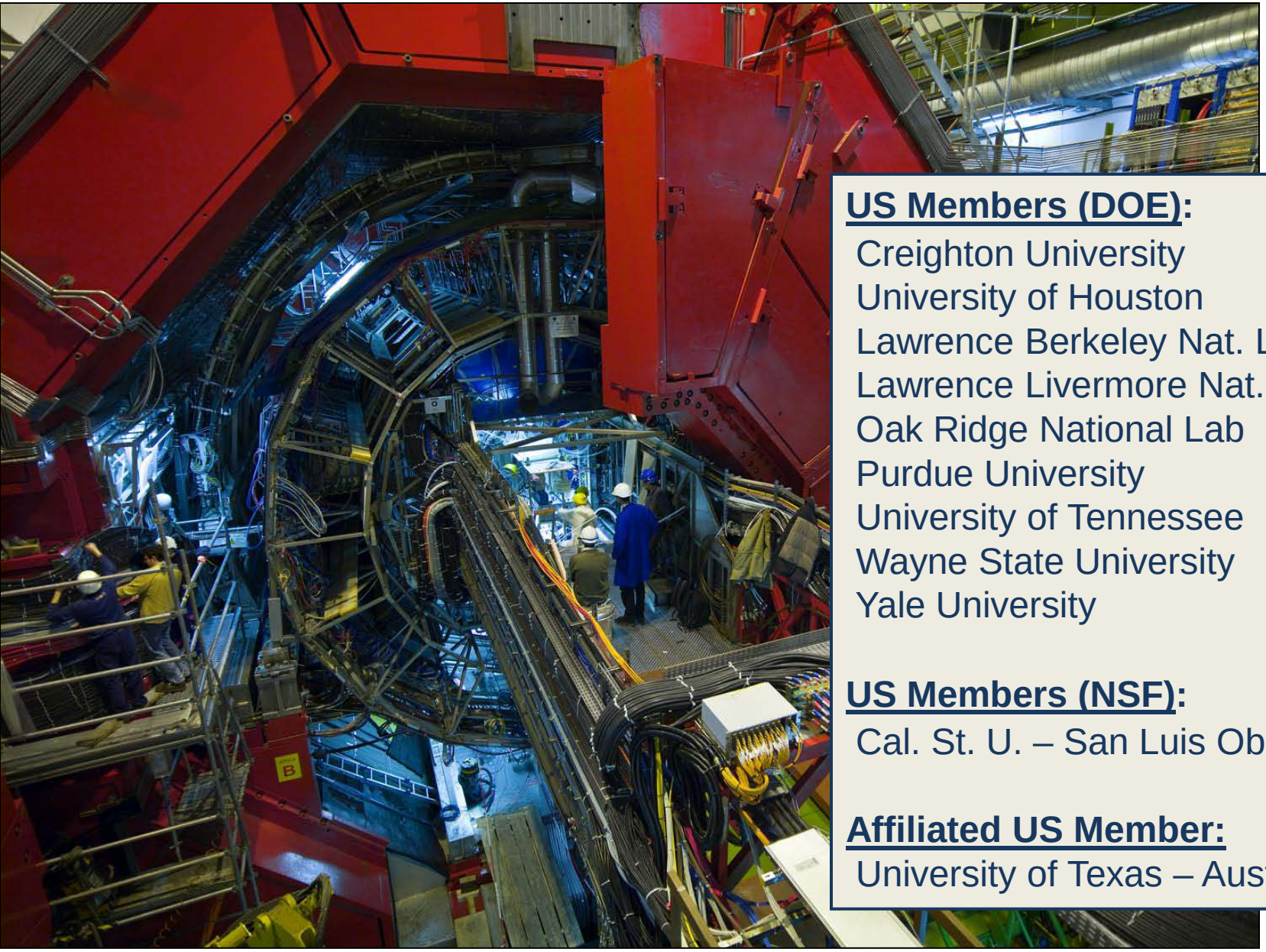
ALICE-USA



US Members (DOE):

Creighton University
University of Houston
Lawrence Berkeley Nat. Lab
Lawrence Livermore Nat. Lab
Oak Ridge National Lab
Purdue University
University of Tennessee
Wayne State University
Yale University

US Members (NSF):

Cal. St. U. – San Luis Obispo

Affiliated US Member:

University of Texas – Austin

The ALICE-USA Overview

2009 ALICE-USA Collaboration – DOE (28* + 7 PhDs + 9 grad students) + NSF + New

Cal. Poly, San Luis Obispo (NSF) – J. Klay + students

Creighton U. (2*) – M. Cherney, + 3 PhD's, 1 Grad student

U. Houston (1*+1) – L. Pinsky, + 1 PhD, 1 Grad student

LBNL (5*+1) – P. Jacobs, + 4 PhD's, new hire

LLNL (2*) – R. Soltz, + 2 PhD's

ORNL (3*) – T. Awes, + 3 PhD's

Purdue U. (2*) – R.P. Scharenberg, + 1 PhD

U. Tennessee (2*) – S. Sorensen, + 2 PhD's, 1 Grad student

U. Texas (tbd) – C. Markert, + TBD

Wayne State U. (5*+1) – T.M. Cormier, + 4 PhD's, new hire, 2 Grad students

Yale U. (6*+1+1) – J.W. Harris, + 6 PhD's, new hire, 4 Grad students

* M&O PhD's

ALICE-USA Groups, Responsibilities & Physics

(in process of re-confirming this summer)

California Polytechnical Institute, San Luis Obispo (NSF)

EMCal projects – Software and simulations

Physics Interests – Electrons

Personnel (tbd*) – PhD's: J. Klay, Undergrad students: B. Boswell, C Brown, R. Ward

Creighton University

EMCal projects – EMCal hardware controls, controls infrastructure.

Physics Interests – EMCal jet triggering studies.

Personnel (2.8 FTE's) –

PhD's: M. Cherney, J. Fujita, Y. Gorbunov, K. Jayananda, Grad Student: U. Abeysekara

University of Houston

EMCal projects – APD calibration & assembly for EMCal, EMCal database.

Physics Interests – pp physics, jet-jet correlations, PID from TPC is for high Pt jets.

Personnel (2.5 FTE's) – PhD's: L. Pinsky, F. Blanco, Grad Students: D.M.M. Don

ALICE-USA Groups, Responsibilities & Physics

Lawrence Berkeley National Laboratory

EMCal projects – EMCal project management, computing, trigger, simulations & analysis software.

Physics Interests – jets, heavy quarks, correlations.

Personnel (3.2 FTE's[†]) – PhD's: P. Jacobs, G. Odyniec, M. Ploskon, S. Salur, TJM Symons, + new hire

Lawrence Livermore National Laboratory

EMCal project – Computing.

Physics Interests – HBT in p+p and Pb+Pb with jets.

Personnel (0.8 FTE's) – PhD's: R. Soltz, A. Glenn, J. Newby

Oak Ridge National Laboratory

EMCal projects – Electronics, super-module test & operation, L0/L1 single shower trigger, online control and monitoring software.

Physics Interests – π^o , direct γ.

Personnel (2.1 FTE's) – PhD's: T. Awes, D. Silvermyr, G. Young, A. Enokizono

ALICE-USA Groups, Responsibilities & Physics

Purdue University

EMCal projects – Fab/test LED components.

Physics Interests – jet-jet and γ-jet tomography, long-range correlations.

Personnel (1.5 FTE's) – PhD's: R.P. Scharenberg, B.K. Srivastava

University of Texas – Austin (affiliated member)

EMCal projects – Specific module components.

Physics Interests – PID in jets.

Personnel (tbd) – PhD's: C. Markert

University of Tennessee

EMCal projects – EMCal front-end electronics, LED gain monitoring, online calibration software, simulations and analysis software

Physics Interests – heavy flavor production in p+p and A+A via single electron tag.

Personnel (1.1 FTE's) – PhD's: S. Sorensen, K. Read, J. Hamblen, Grad. Students: I. Martashvili

ALICE-USA Groups, Responsibilities & Physics

Wayne State University

EMCal projects – EMCal project management, construction, assembly, simulations and analysis software, software infrastructure for EMCal offline.

Physics Interests – PID in jets, jet correlations, direct γ, p + p, Day-1 physics.

Personnel (4.9 FTE's[†]) – PhD's: T.M. Cormier, R. Bellwied, C.M. Pruneau, S. Voloshin, A. Pavlinov, + new hire

Grad. Students: V. Loggins, J. Mlynarz

Yale University –

EMCal projects – Assemble/test/calibrate EMCal US super-modules, simulations & analysis software.

Physics Interests – jets, flavor (s, c, b) physics and tagged jets, Day-1 physics.

Personnel (3.8 FTE's[†]) –

PhD's: J.W. Harris, E. Bruna, H. Caines, M. Heinz, J. Putschke, N. Smirnov, P.T. Hille, + new hire

Grad. Students: T. Aronsson, B. Hicks, R. Ma, A. Ohlson

ALICE-USA Groups, Responsibilities & Physics

Note:

FTE's are projected 2009 effort.

Above manpower estimates are for overall EMCal effort (includes hardware & software).

Most groups have committed to EMCal commissioning and operation.

This includes software!

Comments from my perspective:

In my view, this effort is moving more slowly to ALICE (EMCal) than projected,

slower to move from RHIC experiments due to data analysis and papers

slower to get involved than anticipated (for other reasons – inertia?)

expect visible increase in effort on EMCal this Summer/Fall (review US effort!)

DOE is intent on maintaining strength at RHIC,

this restricts some efforts/commitments on ALICE/EMCal.

Software Discussion

For What it's Worth –

My view of what is necessary to move forward in Software:

Identify EMCal Offline Software Coordinator (Gustavo!), Tasks and Team

Identify EMCal Online Software Coordinator (to be at CERN), Tasks and Team

Identify EMCal Calibration Czar (to be at CERN), Tasks and Team

To whom do they report?

Timely!

Need coordinators to be able to

match people with tasks, get commitments and see more results!

EMCal Physics Performance Report (PPR) – discussion at Frascati tomorrow

In process of requesting change of submission date to Sept/Oct. 2009