

Argonne National Laboratory  
High Energy Physics Division Theory

Notes for Conversation with Alan Stone

Edmond Berger

Argonne National Laboratory

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# Composition

## Staff members

Ed Berger

Geoff Bodwin

Ian Low (50% Northwestern)

Cosmas Zachos

Carlos Wagner (50% U Chicago)

## Postdoctoral fellows

Qing-Hong Cao (Berger/Rosner ANL/UoC Joint Theory Institute funding)

Jamie Gainer (50% Northwestern)

Chris Jackson (departs 8/2010 for Assistant Prof position at UT/Arlington)

Seth Quackenbush

Gabe Shaughnessy (50% Northwestern)

## New arrivals fall 2010

Frank Petriello (Physicist ANL; Assoc Prof Northwestern; 50/50)

Radja Boughezal (Assistant Physicist ANL)

Pedro Schwaller (Postdoc; 50% U Illinois Chicago)

# Activities

Particle physics phenomenology is the main research priority

Hadron collider physics, perturbative QCD, Higgs physics, BSM phenomenology, quarkonium phenomenology

Cosmology and astroparticle physics

dark-matter and baryogenesis

Fundamental physics; non-perturbative field theory

# New Staff Appointments

Most important recent news is the successful hire of **Frank Petriello** as Physicist at ANL and Associate Professor at Northwestern

Frank became better acquainted with us as a fully paid ANL visitor January - May 2010

Offer and decision resulted from an open search; outstanding candidates

Substantially strengthens perturbative QCD and hadron collider physics activity; important interactions with ANL LHC experimental work

**Radja Boughezal** is a second new theory staff appointment. Assistant Physicist at ANL. Impressive credentials in perturbative QCD, Higgs phenomenology, collider physics

# New Opportunities

In very active discussions with **Salman Habib** and **Katrin Heitmann** to come to ANL to lead a theory effort and build a small group in computational cosmology, based in HEP division. Salman would come as a Senior Scientist, and Katrin Heitmann at the Scientist level

These appointments are part of a Laboratory-wide initiative to build leadership in computational science (Ed Berger is a member of the search committee)

Initial funding for 3 years, for both, from LDRD Director's funds

Laboratory management has given the go-ahead to negotiate hiring packages

Complements experimental astroparticle physics work in HEP division

## Smaller scale

A new opportunity exists to strengthen ties with Zack Sullivan, former ANL theory postdoc, now Assistant Professor at Illinois Tech (IIT) Chicago. Frequent visitor here. Collider physics phenomenology expertise. Zack has DOE funding for half a postdoc. Other half at ANL?