

# Strong Dynamics BSM @ LHC

Framework

Benchmarks

Useful / Accessible to Expt. lists

2005 L.H. → BSM "generator" tools  
 2007 L.H. → signature-based BSM  
 2009 L.H. ↔ "Dictionary"  
 HEP model database

Organize info? { signature, resonance (JPC, quantum #, flavor), model type }  
 Presentation

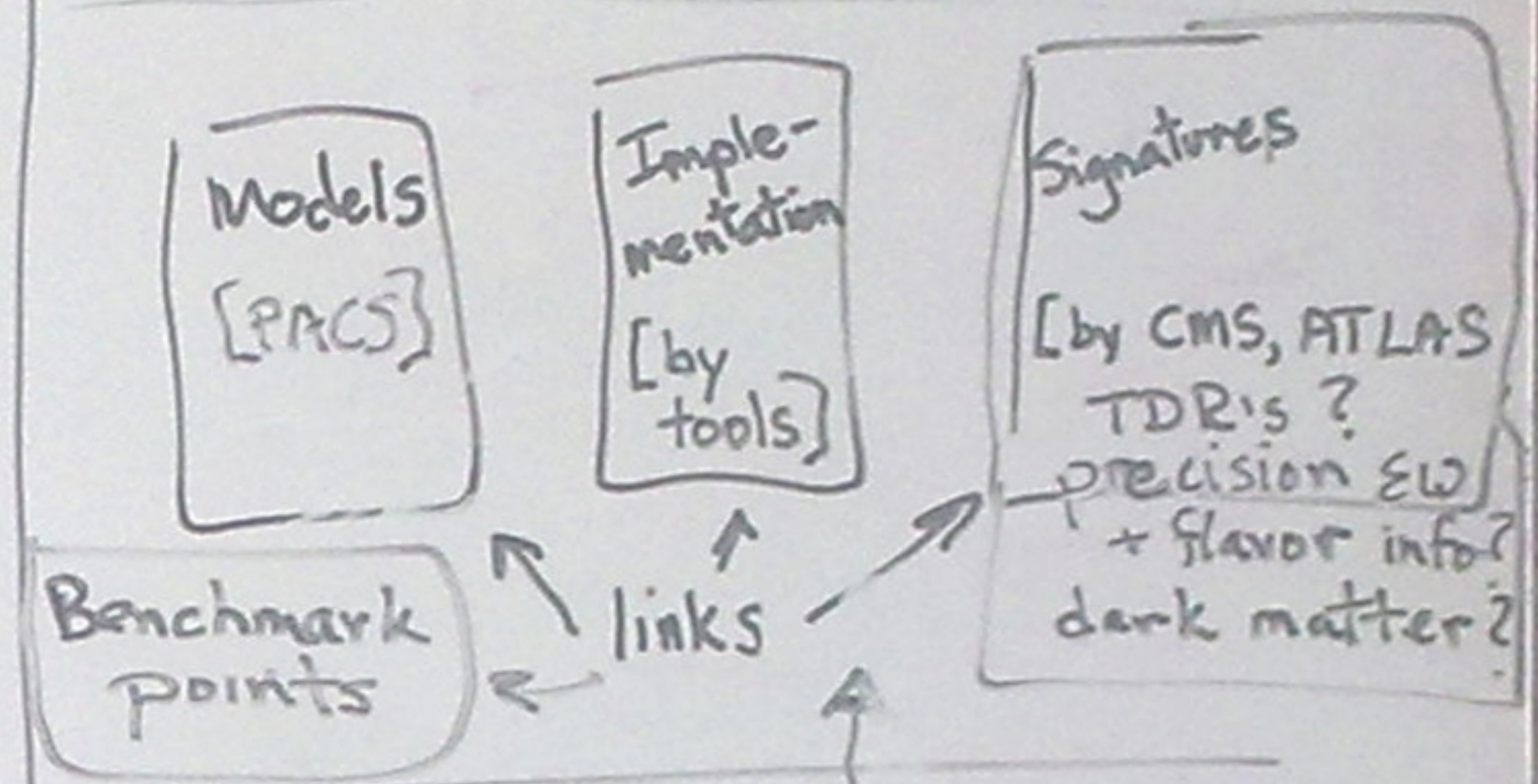
paper → static but refereed

web → monitor lets authors add info about their own model

- quality control?
- comment fields?

specify models and signatures via user-expandable keyword list

## Models, EFT ...



one database, searchable by signature, resonance type ...  
 different pages show results of different queries  
 should indicate what is missing (e.g. model without implementation) so others can add more later (link their new implementation or signature to a model, e.g.)  
 comparison table feature? user picks rows/columns  
 encourage inclusion of arXiv link, documentation for implementation, author's HEPNAMES ID

## Signatures [or Models]

Provide keywords to start with, allow user to add others to list

preferred kinematical cuts (e.g.  $P_{\perp}^T > 50 \text{ GeV}$ ) could be specified either via

- keywords
- Benchmark point defin
- comment field

Implementation \* system for inclusion of

- documentation
- validation

...

Long-term logistics + \$

- INSPIRE?
- foundations with interest in HEP or E-Libraries?
- use existing tools?
- national labs?

White Paper to use as basis for inquiries for information or funding





