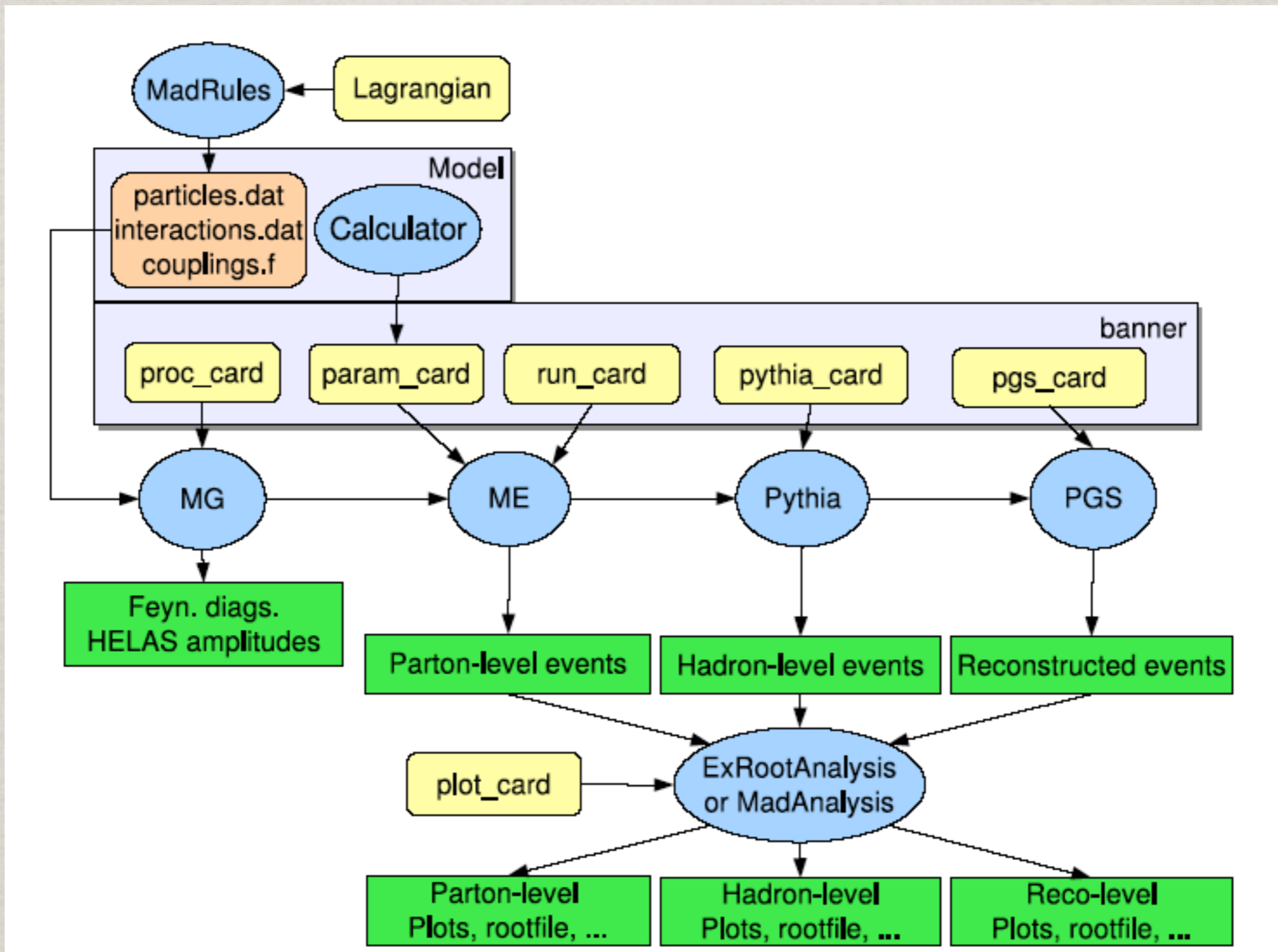


MADGRAPH

B R A I N S T O R M I N G
S E S S I O N

VERSION 4



Uniform card system

MODELS

- ✿ New LH Structure for the param_card.dat
- ✿ Outsourcing of the model parameters (Calculators)
- ✿ Implemented models: HEFT, SUSY, 2HDM
- ✿ USRMOD
- ✿ BRIDGE
- ✿ MadRules + New USRMOD + validation
- ✿ HEELAS

INTERFACES

- ✻ Pythia (Q numbers)
- ✻ Sherpa
- ✻ PGS
- ✻ CMSSW
- ✻ Event converters (STDHEP -> LHEF)
- ✻ Herwig (1st of Oct)
- ✻ ATLAS interface
- ✻ ...

SOFTWARE

- ✻ MadGraph StandAlone
- ✻ CVS
- ✻ Portable server software
- ✻ PBS and CONDOR
- ✻ Web generation and database
- ✻ Tools accessibility
- ✻ GRID

ANALYSIS TOOLS

- ✻ ExRootAnalysis
- ✻ MadAnalysis (from the web!)
- ✻ MadMatchChecker
- ✻ MadReport...(from the web!) (Different levels in one page) (WEB interface)
- ✻ Multi-step access to the various level of generation

PHYSICS TOOLS

☀ MadWeight

☀ MadOnia

☀ MadReal

☀

PHYSICS TOOLS: MATCHING

- ✻ MLM matching (Cone and Kt)

- ✻ Interface to CKKW

- ✻ New matching schemes:

 - ✻ SCET

 - ✻ POWHEG

 - ✻

PHYSICS: SAMPLES

- ⊗ BSM samples for experiments
- ⊗ Multi-jet SM samples for th's and exp's

Establish purposes of such samples!

COMMUNITY

- ☼ Scientific communications....

- ☼ Wiki (!!!!)

- ☼ Development projects

- ☼ Community enhancement:

 - ☼ theory

 - ☼ experiment