

## Search for Exotics Particles

### Camilo's Kaluza Klein taus MC

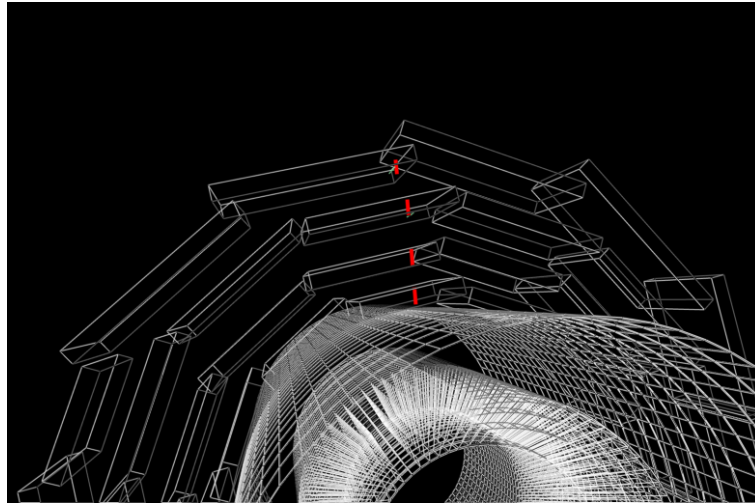
This is Camilo's KK taus configuration file for MC production (done by him at the UniAndes Tier-3): kktaugen.py.txt

The event generator used was Comphep as it can be seen in the following fragment. Pythia was used for the hadronization with the following driving parameters:

```
process.source = cms.Source("ComphepSource",
    pythiaPylistVerbosity = cms.untracked.int32(0),
    pythiaHepMCVerbosity = cms.untracked.bool(False),
    fileName = cms.untracked.vstring('file:/uscms_data/d2/jchen/KKlepton/Mixedevts23958_kktau300'),
    process = cms.untracked.string('p1,p1 -> ~l2,~L2'),
    CompHEPFirstEvent = cms.int32(1),
    crossSection = cms.untracked.double(0.02),
    getInputFromMCDB = cms.untracked.bool(False),
    maxEventsToPrint = cms.untracked.int32(1),
    MCDBArticleID = cms.int32(0),
    PythiaParameters = cms.PSet(
        parameterSets = cms.vstring('pythiaUESettings','pythia'),
        pythiaUESettings = cms.vstring('MSTJ(11)=3      ! Choice of the fragmentation function',
            'MSTJ(22)=2      ! Decay those unstable particles',
            'PARJ(71)=10 .    ! for which ctau 10 mm',
            'MSTP(2)=1      ! which order running alphaS',
            'MSTP(33)=0      ! no K factors in hard cross sections',
            'MSTP(51)=7      ! structure function chosen cteq5l',
            'MSTP(81)=1      ! multiple parton interactions 1 is Pythia default',
            'MSTP(82)=4      ! Defines the multi-parton model',
            'MSTU(21)=1      ! Check on possible errors during program execution',
            'PARP(82)=1.8387  ! pt cutoff for multiparton interactions',
            'PARP(89)=1960.  ! sqrts for which PARP82 is set',
            'PARP(83)=0.5    ! Multiple interactions: matter distrbn parameter',
            'PARP(84)=0.4    ! Multiple interactions: matter distribution parameter',
            'PARP(90)=0.16   ! Multiple interactions: rescaling power',
            'PARP(67)=2.5    ! amount of initial-state radiation',
            'PARP(85)=1.0    ! gluon prod. mechanism in MI',
            'PARP(86)=1.0    ! gluon prod. mechanism in MI',
            'PARP(62)=1.25   ! ',
            'PARP(64)=0.2    ! ',
            'MSTP(91)=1      ! ',
            'PARP(91)=2.1    ! kt distribution',
            'PARP(93)=15.0   ! '),
        pythia = cms.vstring('MSEL=0 !(D=2)', 'MDCY(C2000015,1) = 0 !L2 does not decay')
    )
)
```

Jobs were submitted from CERN using the following configuration file for CRAB: crabSucceedUnandes.cfg

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- HSCP311.tgz: Produccion HSCP - from Chen (FNAL)

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This topic: Main > CMSUniandesGroupEXOTICA  
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