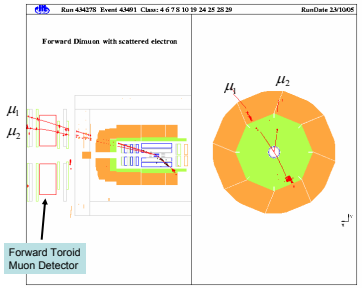
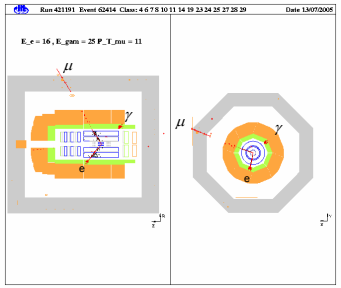
Events in the H1 Detector

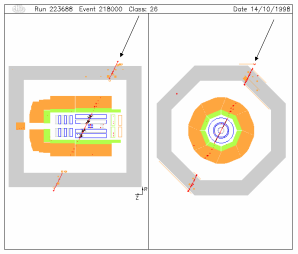
In the 'forward direction' muons are measured by the 'Forward Toroid Muon Detector'



Here it is very visible how electron, muon and photon are distinguished



Muons also come from the sky .....



This is BACKGROUND, which we do not like !

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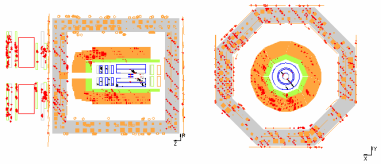
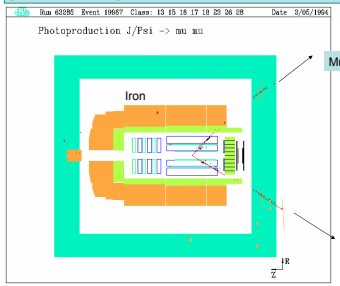
...and it can be even more fierce ....



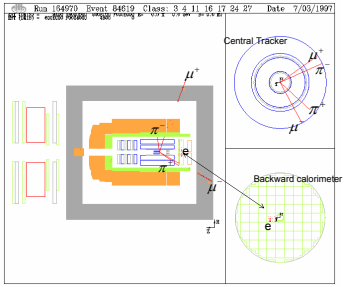
Another event where the J/Psi particle decays into two muons (this time 'backward')



$ep \to (e)(p)J/\Psi$

$J/\Psi \to \mu^+\mu^-$

The J/Ψ particle has a sister the Ψ'

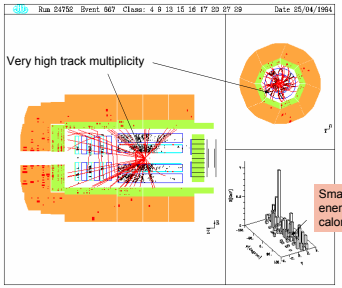


$ep \to e(p)\Psi'$

$\Psi' \to \Psi\pi^+\pi^-$

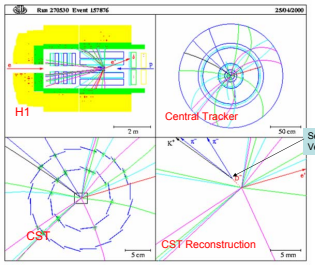
$\Psi \to \mu^+\mu^-$

Most events are much more complicated :

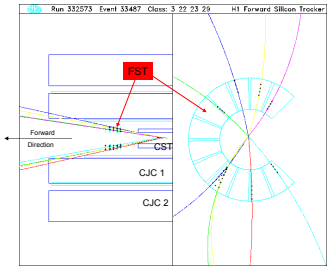


The Central Silicon Detector (CST) measures hits very precisely (10 micrometer). search for secondary vertices of heavy quark (charm,bottom) decays :

Zoom in ....



Tracks seen in the Forward Silicon Track Detector (FST)



The FST allows to cover very small forward angles