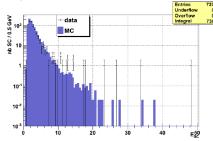
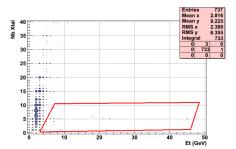
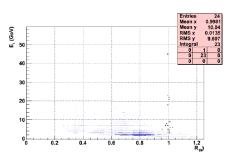


What is a spike?





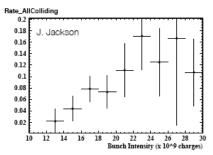


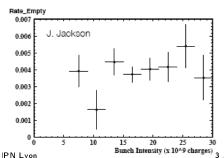


- some super-clusters with a very high energy reconstructed and a little number a crystals
 - ightarrow non-physical energy !
- way to definite them $R_{19} =$ near 1

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When and where?





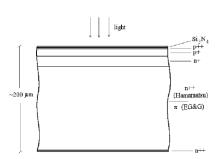
- Where: everywhere in barrel (in fact not yet enough stat to see a patern)
- two componentes :
 - \rightarrow one in empty BX seems constant
 - \rightarrow the other, in collision BX, increases with the luminosity



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few words about ADC

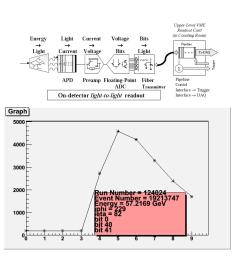


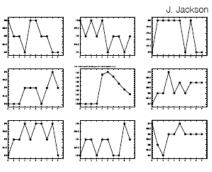


- APD = avalanche photo-diode
- only in BARREL



Few words about ADC



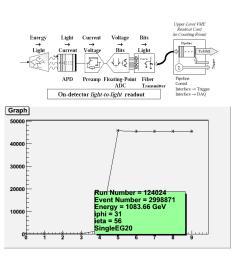


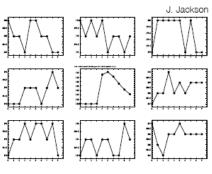
- the samples are a bit differents (no scintillation components?)
- $\bullet \ \to \mbox{the ADC}$ is suspected



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Few words about ADC

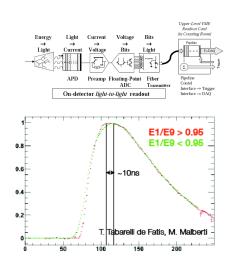


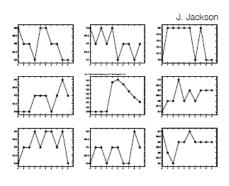


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Few words about ADC





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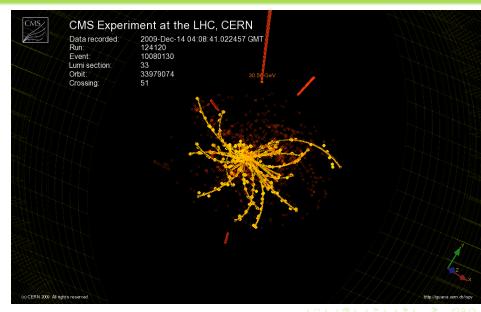
spike origin?

- Leading theory is that some other particles can interact with the APD
- charged particules can make a pair hole-electron in the APD
- neutrals particles (neutrons, Klong) can also make a MIP in it ...

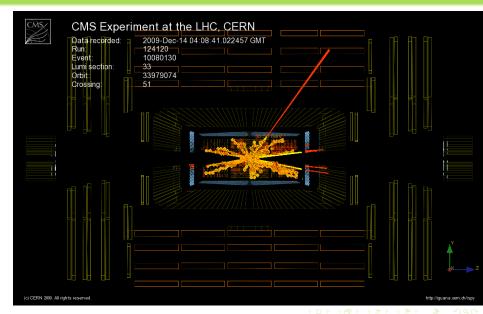


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spike origin ?



spike origin ?



spike origin?

