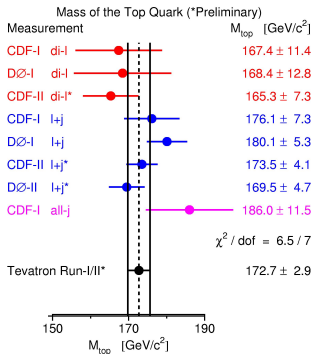


# SCT Top Quark Activities



München, December 16, 2005

Richard Nisius (MPI München)

[nisius@mppmu.mpg.de](mailto:nisius@mppmu.mpg.de)



Max-Planck-Institut  
für Physik  
München

## Status plans and resources

### Status

- Nabil looked at the mass of the top quark in the  $bb q\bar{q} \ell\nu$  channel.
- Based on ESD/AOD and with the help of the Nikhef people Ivo van Vulpen and Stan Bentvelsen he produced N-Tuples, made some mass fits, and started to look at jet algorithms.

### Plans

- Intensify the studies to measure the mass of the top quark in the  $bb q\bar{q} \ell\nu$  channel.
- Look at jet algorithms, effects of alignment, vertexing, b-tagging, . . . .
- Together with the HEC group look at jet energy scales.

### Resources

- The following people will be able to contribute: Nabil Ghodbane (Postdoc), Roland Härtel (PhD Student), Miguel Olivo (PhD student) and RN. Jochen Schieck and Stefan Kluth are also interested.

**The topics investigated will be driven by the needs to obtain a precise mass.**