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- General comments on Tev emittances: (FWs)
    - we have some  $<1-2$  pi emm at p-inj
    - 5-6 pi at pbar inj
    - $<2-3$  (or negative)pi for p's at 150
    - (negative 0-3pi)pbars at 150
    - 4-7 pi on ramp (p and pbars)
    - blowups at 980 – instability (big ... 5-50 pi)
    - scallop emittances for pbars (+20 pi)

On the ramp:

- Severe after Nov.1 (2-3 pi  $\rightarrow$  5-7 pi)
- In both p and pbars
- Not due to dampers
- Same for coalesced and non-coalesced
- Same or worse on central orbit
- Tune adjustments did not help

