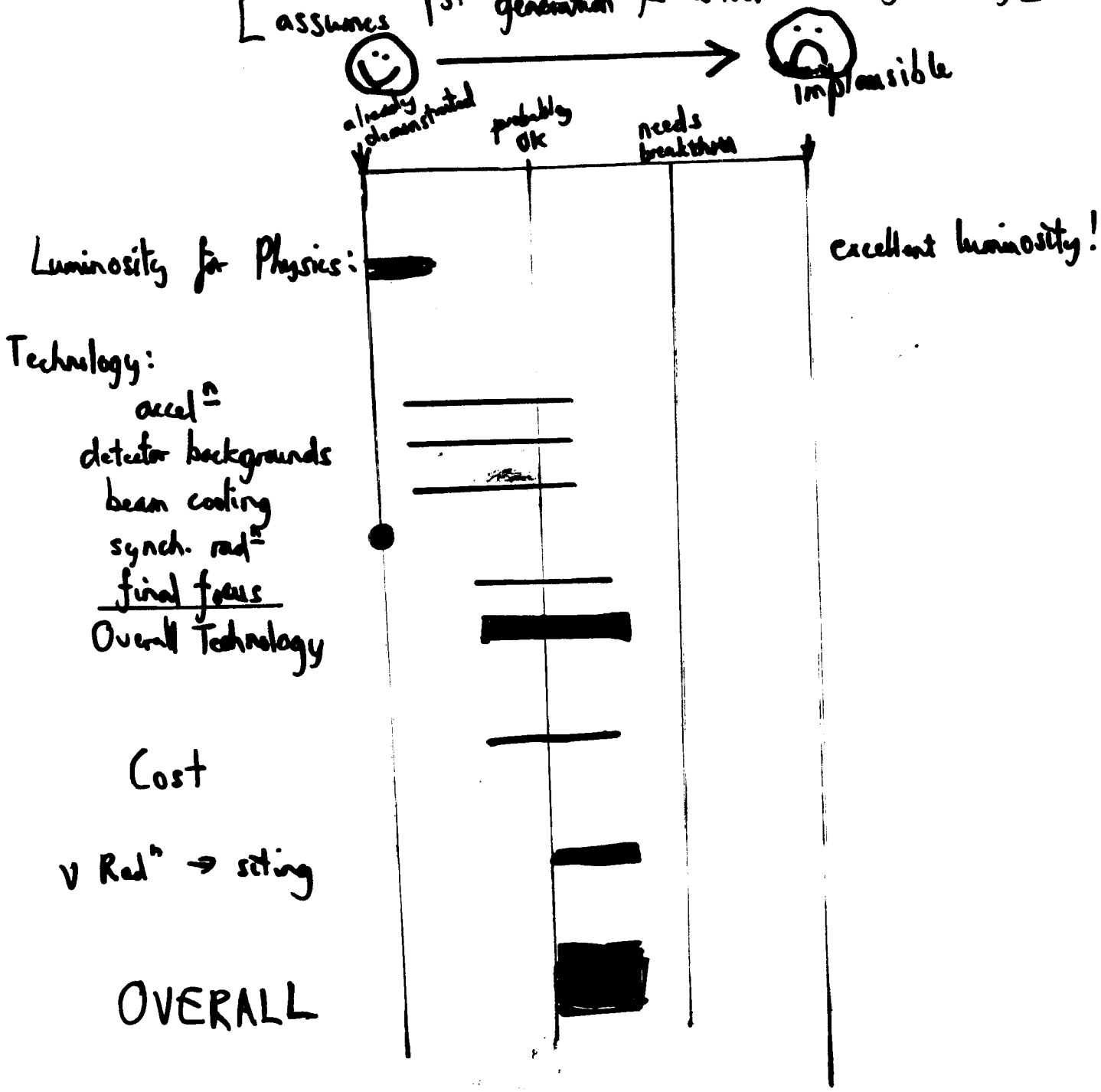
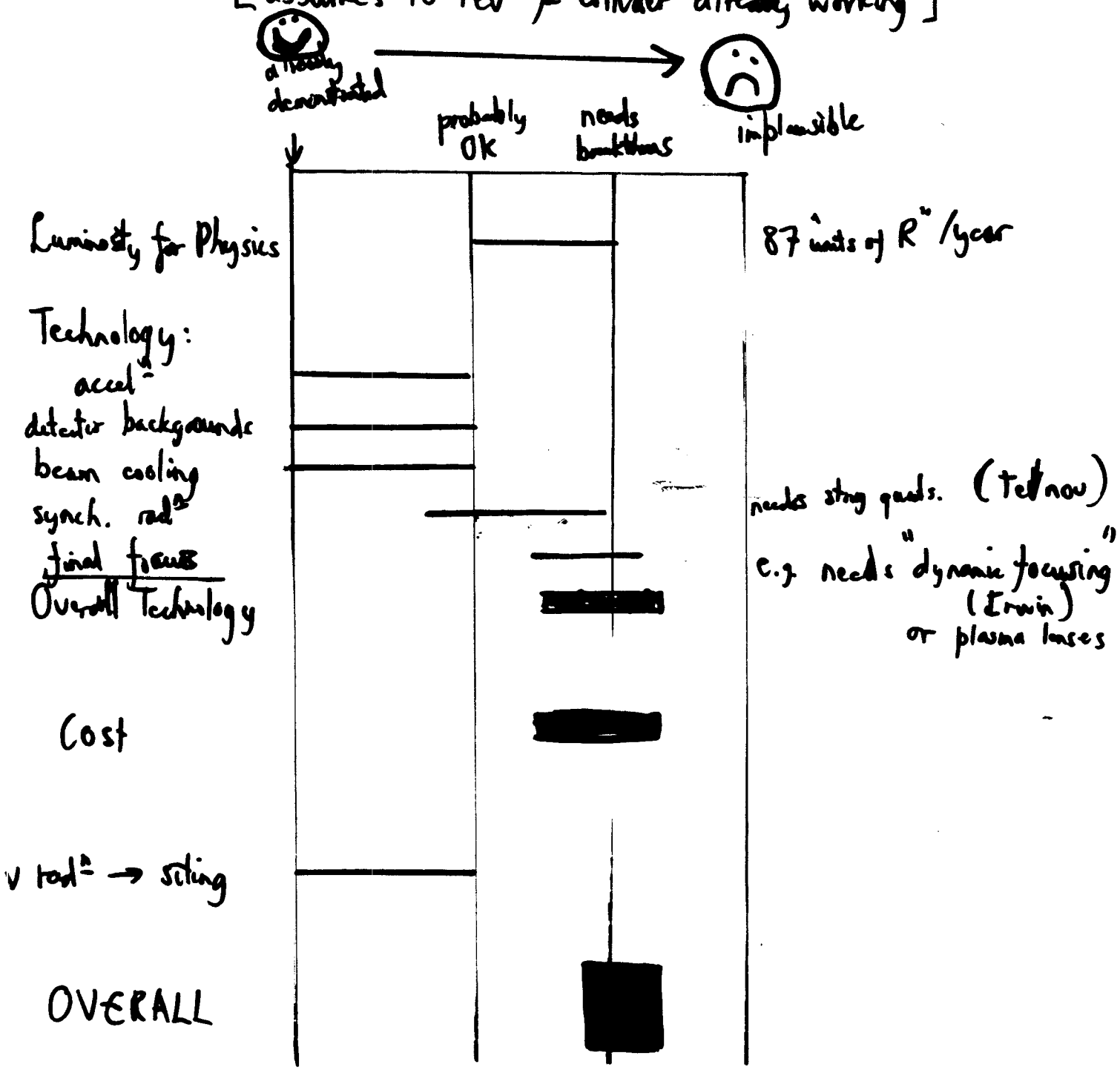
5+5 TeV Parameter Set : BJK Evaluation so far

[assumes 1st generation μ collider already working]



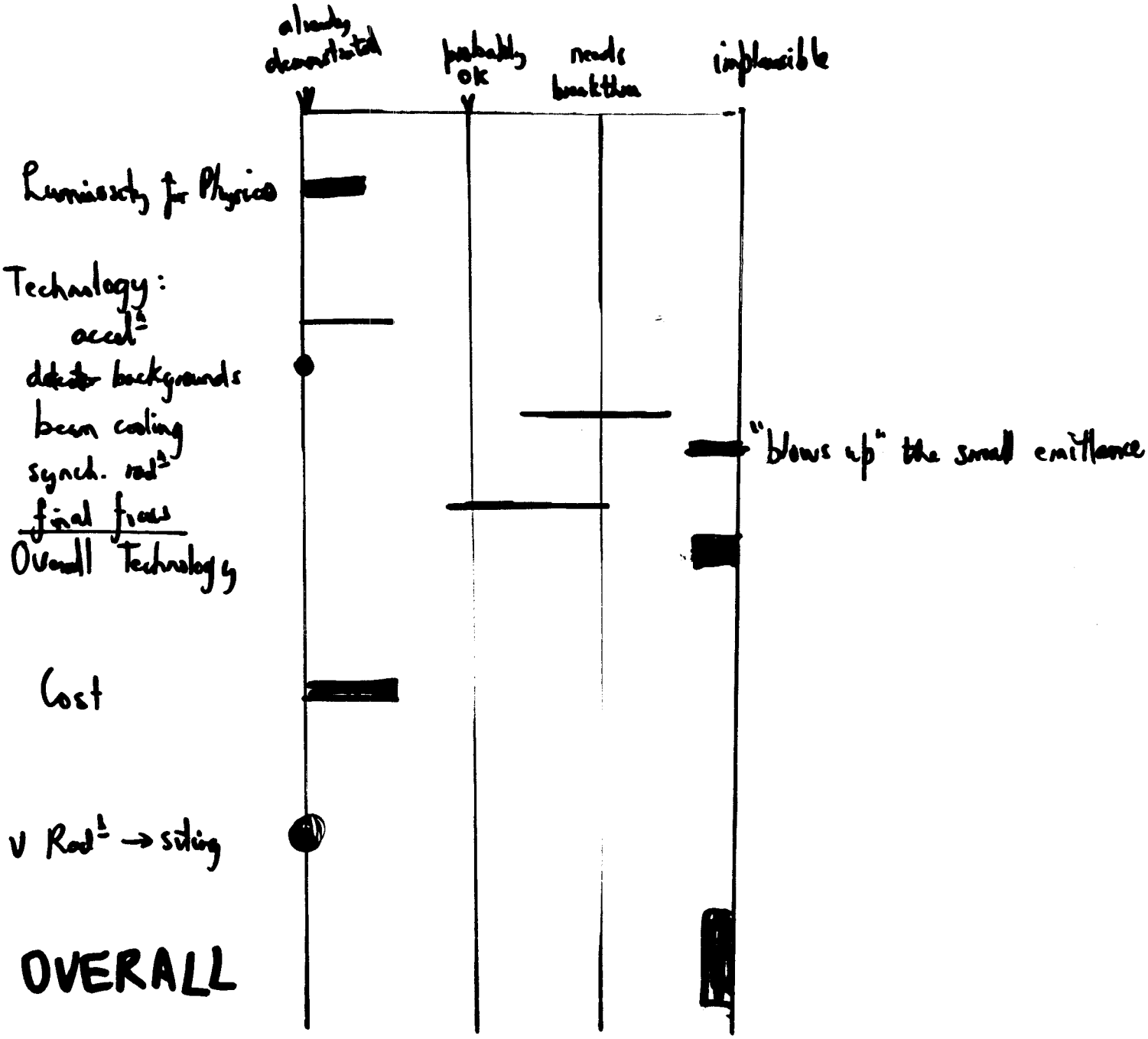
100 TeV "evolutionary" Parameter Set

[assumes 10 TeV μ collider already working]



100 TeV "ultracold beam etc." Parameter Set

[assumes "evolutionary 100 TeV" works]



More General Outlook (beyond the parameter sets)

- Ultracold Beams:
  - still looking plausible — low E cooling ? (Lebrun, Parkhomchuk) — OSC no show-stoppers yet
  - perhaps not needed for 10 TeV (but could be helpful)
  - circulating is incompatible with synch. rad^{n} at 10~100 TeV (Telnov)
  - needs either
    - (i) IP compensation
    - (ii) single pass

  $\Longrightarrow$ large deviation

- Possible Path to 10 TeV: ~ as in parameter set.

- Possible Paths to 100 TeV
  1) ~ 10 TeV parameter set + dynamic focusing
  2) OSC + linac !! $\Rightarrow$ huge deviation

- Possible Path to 1000 TeV = 1 PeV (Zimmermann)

OSC + linac