



Grokking the new baseline*



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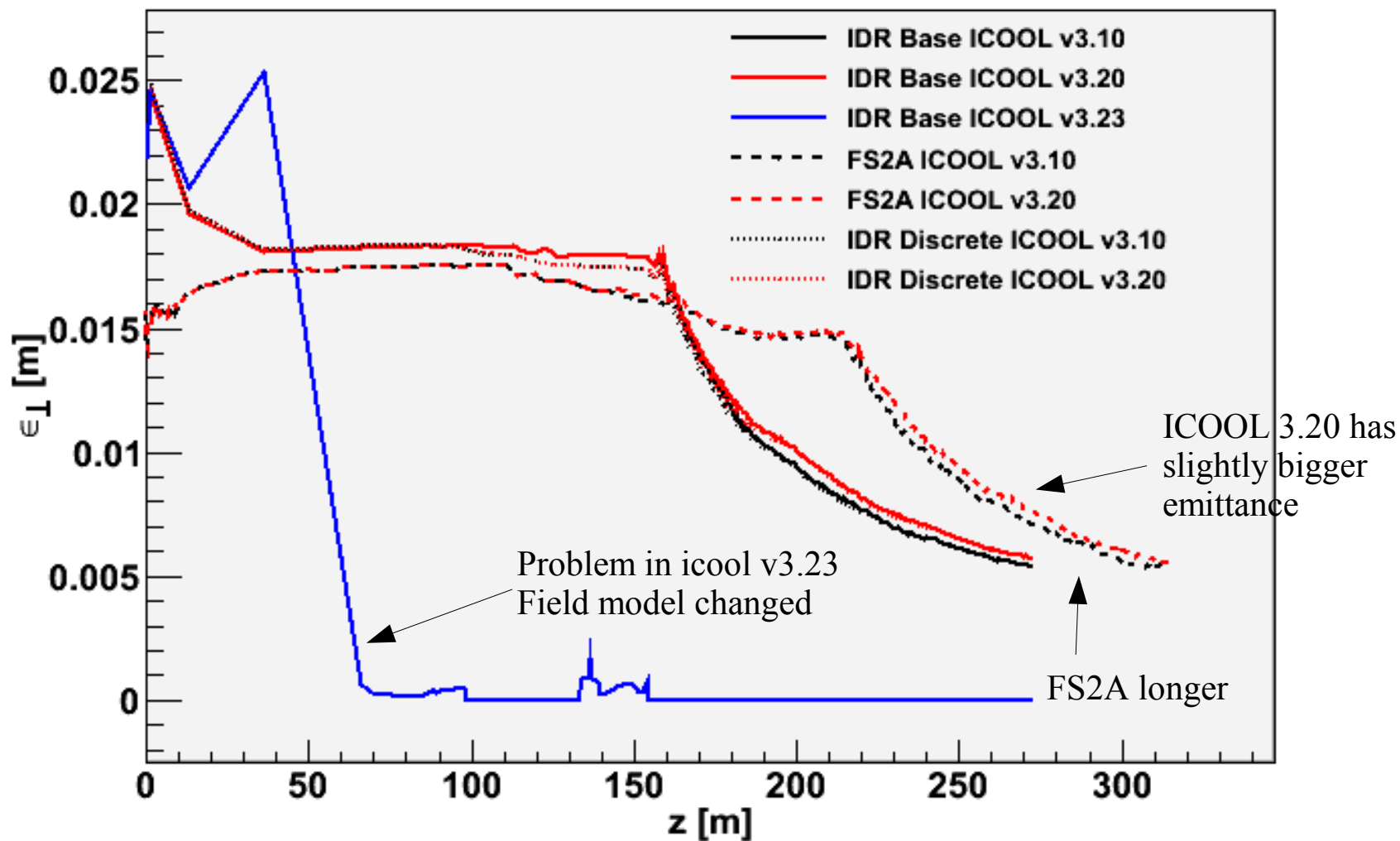


Overview

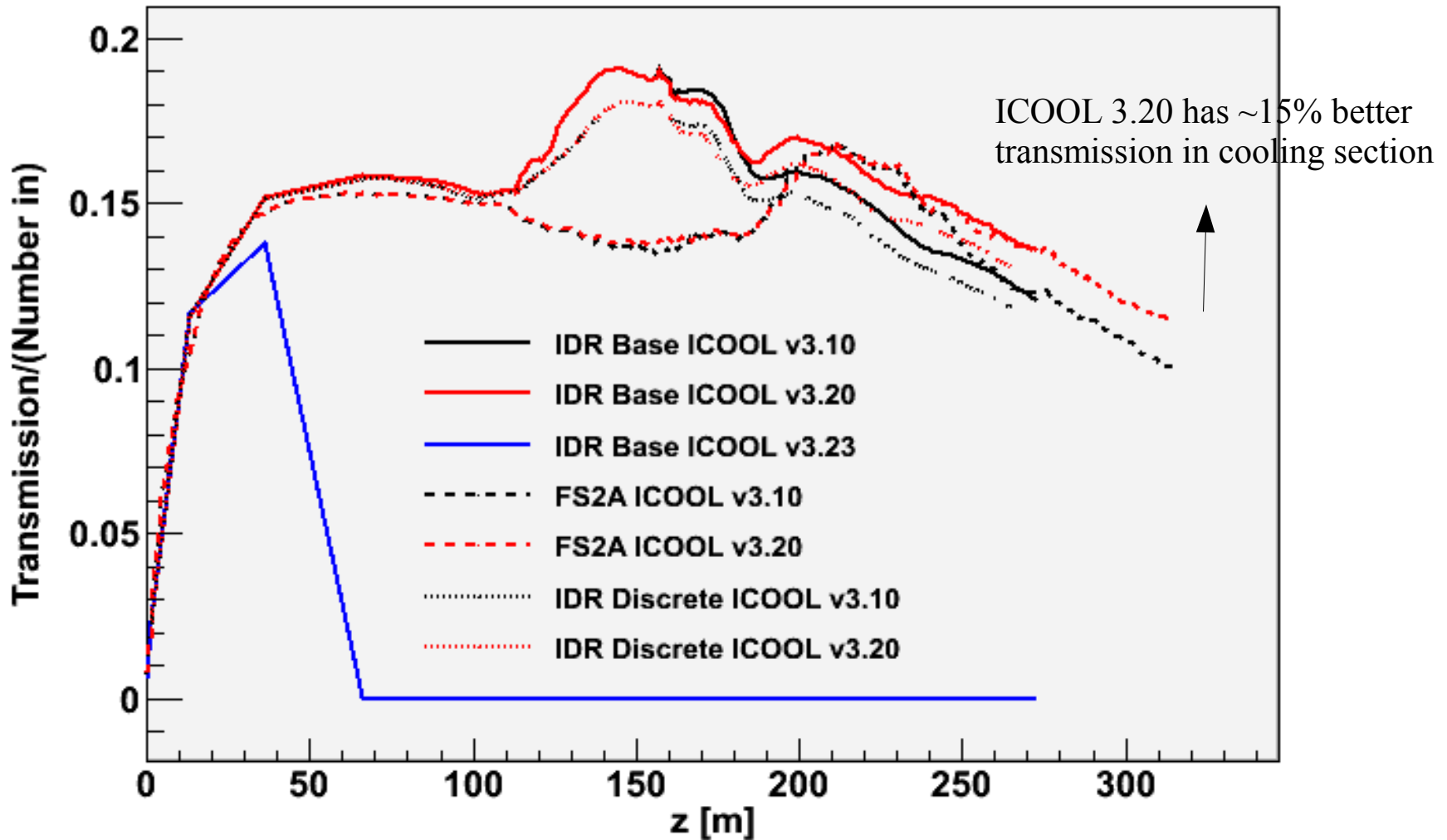


- Look at Dave's new baseline
 - Compare with different ICOOL versions
 - Compare with old baseline
 - Modified to use same physics models in LiH
 - Only use 5k events (50k job still running)
 - Compare “discrete” with “base”
 - “Discrete” has more real coil geometry and RF frequencies in buncher/rotator
 - Use 50k events
 - Otherwise untouched
 - All with same input beam file (from Dave N, 50000 events)
- Nb: I'm doing MICE Operations Manager job this month

Transverse Emittance



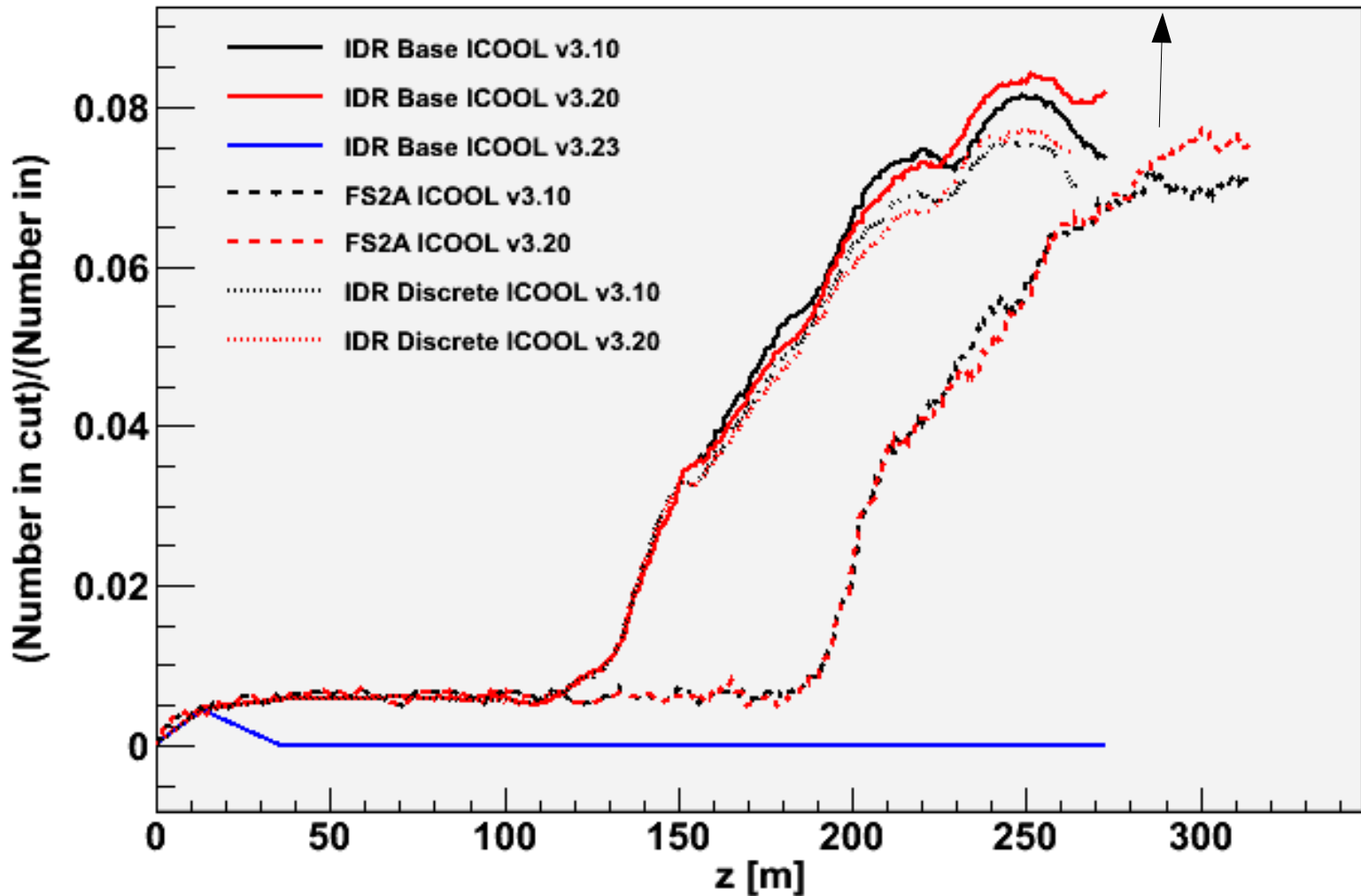
Transmission



Transmission



Difference at peak is about 3% for IDR, about 9% for FS2A



A decorative graphic in the top-left corner consisting of overlapping colored squares (green, red, blue) and a black crosshair.

Conclusions

- New baseline has better performance than FS2A as we hope
- With more realistic windows, etc it starts to look quite comparable
- There are some differences between recent ICOOL versions
 - This can have an impact – caveat emptor