

A tale of scales in Asymptotically Safe Quantum Gravity

What if ASQG is not fundamental?

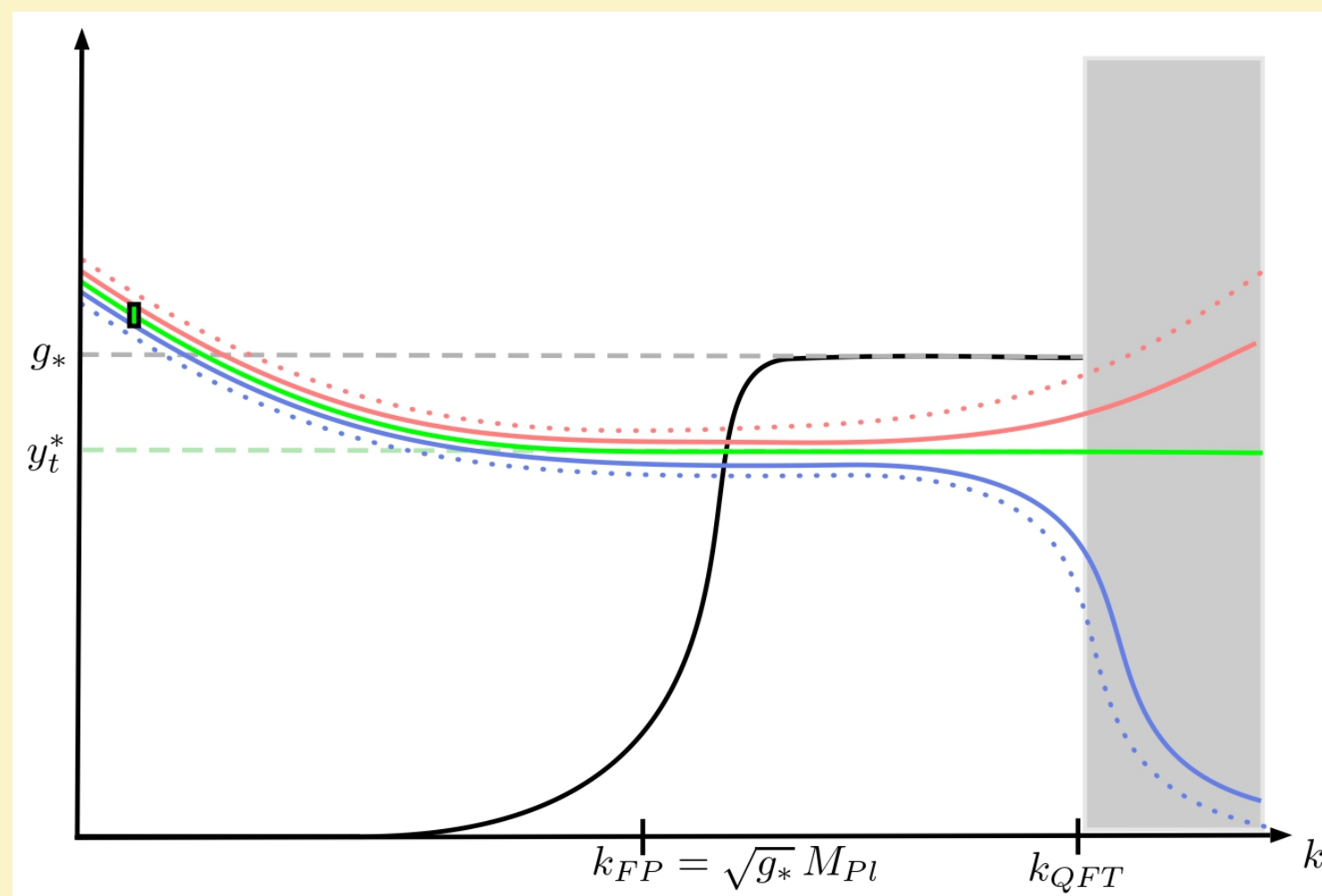
Can it arise as an effective description of a more fundamental theory? Can we constrain the QG scale using low-energy observables?

1707.01107 Eichhorn, Held

The top-quark mass provides a powerful constraint.

We identify the **fixed point scale**, a meaningful QG scale in AS, and we study its interplay between other relevant scales

UV completion and compatibility with experiments require that this scale be at least Planckian, ruling out weakly-coupled string embeddings



- And more...
- relation to species scale?
 - "bumps" as signatures of ASQG?

