

Dielectron next steps

Electrical conductivity

- **Physics motivation** (Stefan Floerchinger and Ralf Rapp)
- **Compare:**
 - Signal (Stefan Floerchinger and Ralf Rapp ?)
 - Hadronic cocktail (Klaus Reygers, Sebastian Scheid, Raphaelle Bailhache)
 - Physics background from UPC (Kai Schweda, Georgijs Skorodumovs)
 - Combinatorial background with inner TOF and $B = 0.2$ T (possible bachelor student, Sebastian, Raphaelle depending on the outcome of above)

*Goal: clarify the differences between different calculations/background estimations
Write-up our current understanding*

Thermal, pre-equilibrium dielectrons

Chiral symmetry restoration

- **Physics motivation** (Ralf Rapp, Gojko Vujanovic, S. Schlichting)
- **Goal:**
 - Compare different approach in the models (missing discussion this week) (Ralf Rapp, Gojko Vujanovic, S. Schlichting)
 - Update ALICE 3 feasibility studies (Taku, Sebastian, Zafar, Raphaelle)

Goal: Write-up current motivations and expected detector performances

Back-up

Thermal, pre-equilibrium dielectrons

Chiral symmetry restoration

- **Expanding fireball model with hadronic many-body theory**
from [Ralf Rapp](#) et al. ([Hendrik van Hees](#) here) (yield until now)
R. Rapp, Adv. High Energy Phys. 2013 (2013) 148253
P.M Hohler and R. Rapp, Phys. Lett. B 731 (2014) 103
- **Thermal radiation from hadron-gas and QGP + decays** (yield and v_2)
from [Gojko Vujanovic](#) et al (arxiv:1903.05078 and arxiv:1702.02941)
- **Pre-equilibrium and thermal radiation from QGP** (yield)
from M. Coquet X. Du J-Y Ollitrault [S. Schlichting](#) M. Winn
Physics Letters B Volume 821, 10 October 2021, 136626, arXiv:2112.13876