



Contribution ID: 271

Type: **Poster**

## **Dilepton production from the quark-gluon plasma using leading-order (3+1)D anisotropic hydrodynamics**

*Tuesday, 29 September 2015 16:30 (2 hours)*

Dilepton production from the quark-gluon plasma (QGP) phase of ultra-relativistic heavy-ion collisions is computed using the leading-order (3+1)-dimensional anisotropic hydrodynamics. It is shown that high-energy dilepton spectrum is sensitive to the initial local-rest-frame momentum-space anisotropy of the QGP. Our findings suggest that it may be possible to constrain the early-time momentum-space anisotropy in relativistic heavy-ion collisions using high-energy dilepton yields.

### **On behalf of collaboration:**

NONE

**Primary author:** STRICKLAND, Michael (Kent State University)

**Co-author:** Dr RYBLEWSKI, Radoslaw (Institute of Nuclear Physics PAN)

**Presenter:** STRICKLAND, Michael (Kent State University)

**Session Classification:** Poster Session

**Track Classification:** Electromagnetic Probes