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### **P1.75: Dark-field Radiography for Detection of Infectious Lung Diseases: COVID-19**

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Dark-field chest radiography allows for assessment of lung alveolar structure by exploiting wave optical properties of x-rays. Here we present first results on the qualitative and quantitative characteristics of dark-field chest radiography in participants with COVID-19 pneumonia. Dark-field radiography shows high accuracy for the detection of COVID-19 and significantly improves diagnostic performance compared to conventional radiography.

In addition, we discuss how spectral information, e.g. from photon-counting detectors, could further improve these clinical darkfield results in the future.

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