

SC- 2891

SAXS Studies of Soot Formation in Premixed Flames with applications to Fire Suppression
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This experiment was supposed to involve the SAXS measurement of soot nanoparticles in a premixed flame under vacuum conditions. The apparatus was assembled and installed on the IDO2 beamline. Unfortunately an accident occurred during an attempt to ignite the flame in air resulting in a burn injury to the hand of S. di Stasio. As a result the experiment was cancelled before any data could be taken.

We intend to submit a new proposal to perform a measurement of soot nanoparticle formation in a premixed flame but the experiment will be performed in air and not in an enclosed vacuum chamber in order to avoid any possible safety risk.