High-Frequency Methods in Electromagnetics

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The session covers all analytical and numerical approaches suitable to treat electromagnetic problems where the dimensions of the objects under investigation are much larger than the operating wavelength. Particularly, it addresses asymptotic methods such as the Geometrical and Physical Optics and their extensions, the (Uniform) Geometrical Theory of Diffraction, the Uniform Asymptotic Theory of Diffraction, and the Physical Theory of Diffraction. The solution of related canonical diffraction problems and beam-based methods are also in the scope of this session.