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One dimensional modelling of XeCl barrier discharge exciplexe lamp LE THANH DOANH, SOUNIL BHOSLE, GEORGES ZISSIS, Laplace, UPS, Toulouse, GROUP LIGHT AND MATERIAL TEAM, CNRS TEAM — Basing on the previous simulation models for Dielectric Barrier Discharge (DBD) lamps [1][2] and the knowledge on their boundary conditions [2] we present a one –dimensional modelling of a DBD excilamp for the mixture of Xenon and Chlorine at high pressure. The model presented here permits us to describe the space and time evolution of all species considered in the volume of the discharge when the DBD lamp is supplied with various waveforms.

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