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Study of UV efficiency of a plasma display panel in Ne/Xe/He mixtures HOYUL BAEK, TAESANG LEE, YONGSEOK JHO, Korea Advanced Institute of Science and Technology, CHOONGSEOCK CHANG, Korea Advanced Institute of Science and Technology & New York University — Plasma display panel is a mature technology with a substantial market. In this work, there is considerable interest in improving UV efficiency in PDP by optimizing gas mixture. For this, we develop 2D particle-in-cell/monte-carlo collisions(PIC/MCC) code. Using 2D PIC/MCC code, we carry out simulations of UV efficiency of a PDP in Ne/Xe/He mixtures, and find a gas mixture for high UV efficiency. Also, we study about mechanism of the striations, which occurs on the dielectric surface of the anode at simulations using PIC code.

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