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Abebaw Tadesse* (atadesse@lunet.edu), P.O.Box 126, Langston, Oklahoma, Langston, OK 73050, and Franklin Fondjo Fotou, OK. Applications of Ensemble based Simulated Annealing to Intensity Modulated Radiation Therapy Planning(IMRTP). Preliminary report.

In this talk, We will present preliminary results on the testings on the applications of Ensemble based simulated annealing algorithms on 2D- Dimensional Intesity Modulated Therapy Planning(2D-IMRT) on two artificial 2D geometries. In the end, current progress and future directions on 3D-IMRT and parallel Simulated annealing will also be discussed. (Received September 14, 2009)