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Title: Computer Aided Design of Optimized Magnetic Lens in FIB System by mixing Dynamic Programming and AI techniques

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This paper has shown a computer aided design of a single magnetic lens with no permeability. By using optimization methods for the Focused ion beam FIB optical system, and fuzzy logic technique of an expert system the calculations of optimum magnetic flux density and pole pieces reconstruction were obtained. A comparison has made to fit present work data with standardized model.