## Periodic Solutions of the (2+1)-Dimensional Schrödinger-Maxwell-Bloch Equation

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## ABSTRACT

In this paper, we construct a Darboux transformation (DT) of the (2+1)-dimensional Schrödinger-Maxwell-Bloch equation (SMBE) which is integrable by the Inverse Scattering Method. Using this DT, periodic solutions are obtained from the "seed" solutions.