

Abstract Submitted  
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**Ratchet effect in an optical lattice** EMIL LUNDH, Dept of Physics,  
Royal Institute of Technology, MATS WALLIN — The possibility of realizing a  
directed current for a quantum particle in a flashing asymmetric potential is inves-  
tigated. It is found that quantum resonances in the effective Planck constant give  
rise to a directed current.

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