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**Robert Michal Owczarek\*** (rmo@lanl.gov), MS 443, Los Alamos, NM 87545. *On convergence of a series solution of peristaltic movement.* Preliminary report.

A method of solving PDEs connected with peristaltic movement of a Newtonian fluid via a series expansion suffers from lack of solid mathematical foundations. In the talk I will discuss results concerning the general form of the solution and criteria for convergence of the series. (Received August 20, 2007)