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A model for an aquatic viral infection

We derive and analyze a new model for the spread of viral diseases among bacteria living in an aquatic medium. The model extends the classical Beretta-Kuang model for marine viruses, describing their complete life cycle, and featuring the replication process of viral particles in their hosts.

This is a joint work with Ivo Siekmann and Horst Malchow from Institut für Umweltsystemforschung, Barbarastrasse 12, Universität Osnabrück, Germany.