

***A DEGENERATE KAM THEOREM FOR PDES WITH
PERIODIC BOUNDARY CONDITIONS***

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Tencent room: 245 867 388

Abstract: In this talk, an infinite dimensional KAM theorem with double normal frequencies is established under qualitative non-degenerate conditions. As applications, for nonlinear wave equation and nonlinear Schrodinger equation with periodic boundary conditions, quasi-periodic solutions of small amplitude and quasi-periodic solutions around plane wave are obtained respectively.