

Schwarz Waveform Relaxation Algorithms

V. Martin, Univ. Picardie Jules Verne, FRANCE

Schwarz Methods and Schwarz Waveform Relaxation methods (SWR) give powerful algorithms to approximate the solutions of PDEs on large domains. The first one applies to stationary PDEs while the second one treats time dependant PDEs.

We propose to give in this talk an overview of Schwarz Waveform Relaxation Algorithms and we will explain how to study the convergence of such algorithms.