

[Mas-Gallic, Sylvie](#)

**Traitement de conditions aux limites dans les méthodes particulières. (Treatment of boundary conditions in particle methods).** (French) [Zbl 0695.65069](#)

C. R. Acad. Sci., Paris, Sér. I 310, No. 6, 465-468 (1990).

Summary: We describe for a model one dimensional convection-diffusion equation with a boundary condition, a particle method in which the diffusion operator is approximated by an integral operator. We prove the convergence and the estimates obtained are similar to those obtained in the whole space.

**MSC:**

[65N35](#) Spectral, collocation and related methods for boundary value problems involving PDEs

Cited in **2** Documents

[35K20](#) Initial-boundary value problems for second-order parabolic equations

**Keywords:**

[convection-diffusion equation](#); [particle method](#); [convergence](#)