

G. A. Philippin and S. Vernier-Piro, **Explicit decay bounds in some quasilinear one-dimensional parabolic problems**, *Math. Methods Appl. Sci.*, 22 (1999), no. 1, 101–109.

**Abstract**

In the first part of this paper we study a thermal diffusion process described by a semi-linear parabolic problem and we introduce a new maximum principle in order to obtain explicit decay bounds for the temperature and its gradient. In the second part we find analogous bounds for the so-called ground water equation in a more general form.