**Parabolic Problems in thin Domains**

Ricardo P. Silva[1]
Universidade de São Paulo, Brazil

Abstract. We study semilinear reaction-diffusion problems of the type

$$\begin{array}{lll} u_t(x,t) = & \triangle u(x,t) + f(u(x,t)), & \Omega \times (0,\infty) \\ \frac{\partial u}{\partial \nu}(x,t) = & 0, & \partial\Omega \times (0,\infty). \end{array} \qquad \text{(P)}$$

We develop a abstract theory to obtain the continuity of the asymptotic dynamics of $(P)$ under singular perturbations of the spatial domain $\Omega$ and we apply that to examples in *thin domains*.

[1]Partially supported by grant # 03/12611-2 FAPESP, Brazil