1023-35-314 **Peng Feng*** (pfeng@fgcu.edu), Dept of Physical Sciences and Mathematics, Fort Myers, FL 33965. On explosive solutions of a class of semilinear elliptic equations.

In this talk, we show existence, uniqueness and exact aymptotic behaviour of solutions near the boundary to a class of semilinear elliptic equation $-\Delta u = \lambda g(u) - b(x)f(u)$ in Ω and $u = \infty$ on $\partial\Omega$, where $\lambda \in \mathbb{R}$, b(x) > 0 in Ω but vanishes on the boundary. Our result covers a large class of g(u), f(u). (Received September 05, 2006)