## SINGULAR ELLIPTIC EQUATIONS WITH MEASURE DATA

At first we recall some definitions and basic tools regarding measures and capacities. Then we study the existence of a solution to the following nonlinear elliptic boundary value problem with a general singular lower order term whose model is

$$\begin{cases}
-\Delta u = H(u)\mu & \text{in } \Omega, \\
u = 0 & \text{on } \partial\Omega, \\
u > 0 & \text{on } \Omega,
\end{cases}$$

where  $\Omega$  is an open bounded subset of  $\mathbb{R}^N$ ,  $\mu$  is a nonnegative bounded Radon measure on  $\Omega$  and H is a continuous positive function outside the origin such that  $\lim_{s\to 0^+} H(s) = +\infty$ . We do not require any monotonicity property on the singular function H (joint work with L. M. De Cave).