mollifier

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A *mollifier* is a smooth function $f : \mathbb{R}^n \to \mathbb{R}$ such

1. $f(x) \geq 0$ for all $x \in \mathbb{R}^n$,

2. f is normalized such that

$$\int_{\mathbb{R}^n} f(x)dx = 1,$$

3. $f(0) = 1$.