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and **Azita Mayeli**. *Gabor bases and curvature*.

We shall discuss some recent developments in the theory of Gabor bases and frames. In particular, we shall see that an indicator function of a symmetric convex body with a smooth boundary and non-vanishing curvature cannot be a window function for an orthogonal Gabor basis on $L^2(\mathbb{R}^d)$. The method of stationary phase and combinatorial considerations play a key role. (Received July 29, 2017)