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*On the Density of Quadratic Fields with Group of Units in Non-Maximal Orders*

For a quadratic number field  $K = \mathbf{Q}(\sqrt{d})$  we explore how often  $\mathcal{O}_K$  has its group of units in a sub-order  $\mathcal{O}$ . In particular, when  $d \equiv 1 \pmod{4}$ , we find a lower bound on the lower density of the square-free  $d$  such that  $\mathbf{Z}[\frac{1+\sqrt{d}}{2}]^\times \neq \mathbf{Z}[\sqrt{d}]^\times$ .