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On t-structures and derived equivalences

We construct t-structures in $\mathbf{D}(R-Mod)$ (the unbounded derived category of R- Modules) and we study conditions under which we can restrict it to the bounded cases, $\mathbf{D}^b(R-Mod)$ and $\mathbf{D}^b(R-mod)$. As applications we obtain an alternative proof to Rickard s theorem.