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*Abstract*— In this paper, the constellation rotation technique is analyzed in the context of the upcoming Second Generation Digital Video Broadcasting (DVB-T2) standard. This technique provides an increase of the robustness of the DVB-T2 receiver in severe propagation scenarios. This improvement is very great above all in channels with erasure events, although this technique always presents a performance gain respect to the use of non-rotated constellations in anything fading channels. The simulation results show that a performance gain of almost 10 dB can be obtained.