A NEW INTERLOCK SYSTEM FOR THE TESLA RF-SYSTEM

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Abstract

The RF system for TESLA requires a comprehensive interlock system. Usually inter-lock systems are organized in a hierarchical way. In order to react to different fault conditions in a flexible manner a non-hierarchical organisation seems to be better suited. At the Tesla Test Facility (TTF) at DESY we will install a non-hierarchical interlock system based on user defined reprogrammable gate-arrays with embedded microcontroller systems. This system could later be used for the TESLA linear collider instead of a strict hierarchical system. We will introduce the non-hierarchical interlock system and give an overview of the consequences for the RF system.