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## **Bus bar joints stability and protection**

*Tuesday, 3 February 2009 18:05 (25 minutes)*

A defective bus connection between two dipole magnets was the primary cause of the incident in sector 34 on September 19th. I will show how this could have happened, i.e. how a highly resistive joint has caused a thermal runaway and burned (or opened) before the QPS threshold was reached. In the second part of the talk I will present the new detection limits for the QPS upgrade of the RB and RQ circuits, required to avoid similar thermal runaways in the future.

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**Session Classification:** Session 04 - Strategy for consolidation to avoid incident and limit collateral damage