

Separating global and local station issues

Dmitry Teytelman

LLRF07 workshop

Finding the Culprit

- In postmortem analysis one would like to focus on the RF station that caused the trip.
- Unfortunately, often *the station that first asserted the interlock \neq the station that caused the trip.*
- In a storage ring all stations "talk" to each other through the beam.
- Need to look at all RF stations to figure out what happened.
- Software tools to do so quickly and easily are **critical**.

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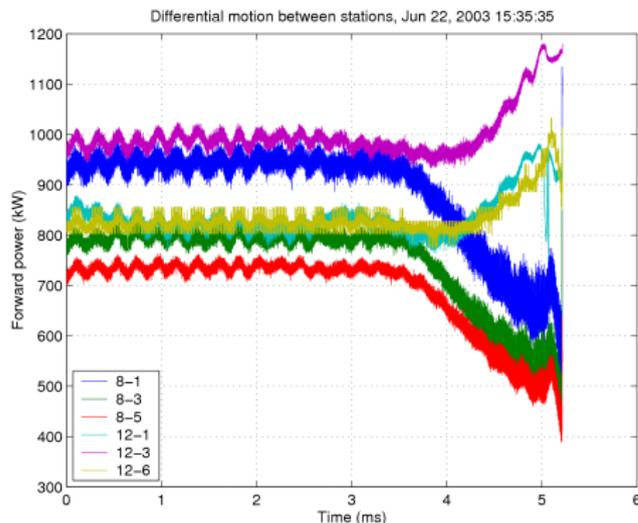
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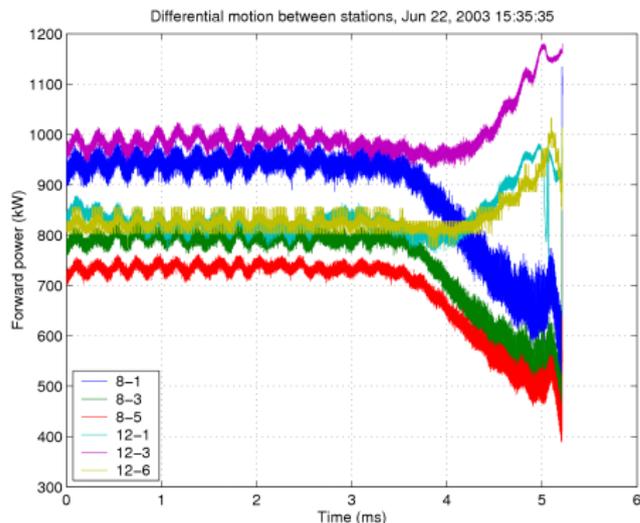
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- Example from PEP-II HER:
 - Six stations, half go up in power and half - down;
 - Two RF regions: 8 and 12;
 - All stations in region 8 go down;
 - The cause: RF reference distribution phase jump between 8 and 12.

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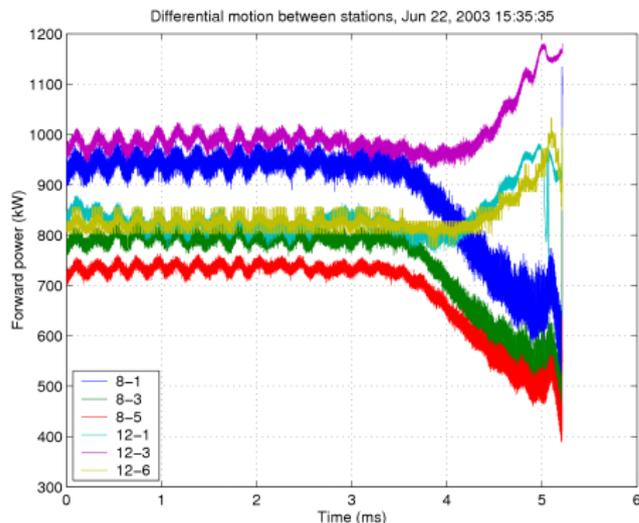
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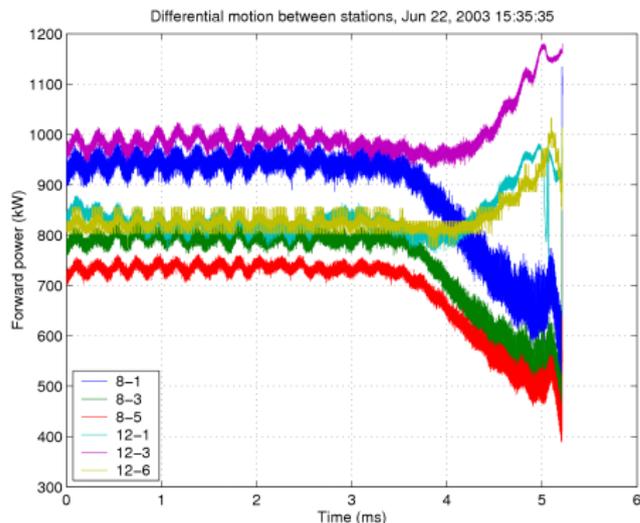
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