

FILAMENT DYNAMICS

ISSUES:

- ***KINKING:***
 - Bernhard Kliem- kink instability *can be* the “trigger” in dynamics/eruption
 - Torous instability may also play role in eruption
 - Tricky question raised: “What are the conditions that the twist reaches so high?”
 - Bernhard’s point: the Sun is able to build up twist that high (5π or more)

- ***KINKING CONT....***
 - Bernhard's 2nd event - 9π of twist
 - quick reformation
- ***SEMANTICS:***
 - “Trigger”
 - “Driver”
 - Paul Bellan: kinking doesn't “cause” eruption.... hoop force
- ***ERUPTION***
 - Success/failure
 - Range, from failed to almost complete

- **HEATING**

- Can you have an erupting filament/prominence with NO heating?
- Terry Kucera's results may help put a lower limit on the heating question

- **TOPOLOGY**

- Flux rope prior to eruption?..... ongoing controversy (especially if Spiro is in audience)
- Olga Panasenco points out flux rope picture may just be roll and twist

So what??

- Observations help.....
 - Of course STEREO/Hinode/SDO
 - Velocity info for kinking
- Models help.....
 - Kudos!

TO BE CONTINUED!!.....