

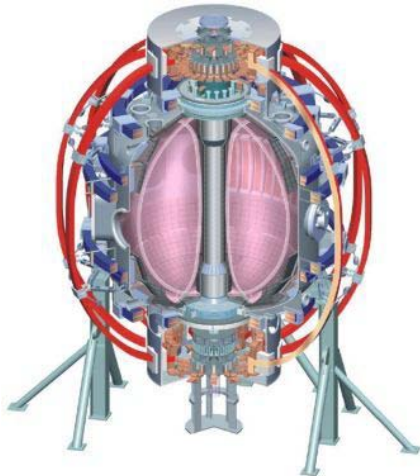
Preliminary Results from XP1020 RFA Measurements

College W&M
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 Columbia U
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 INL
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 U Rochester
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 U Wisconsin

J.W. Berkery

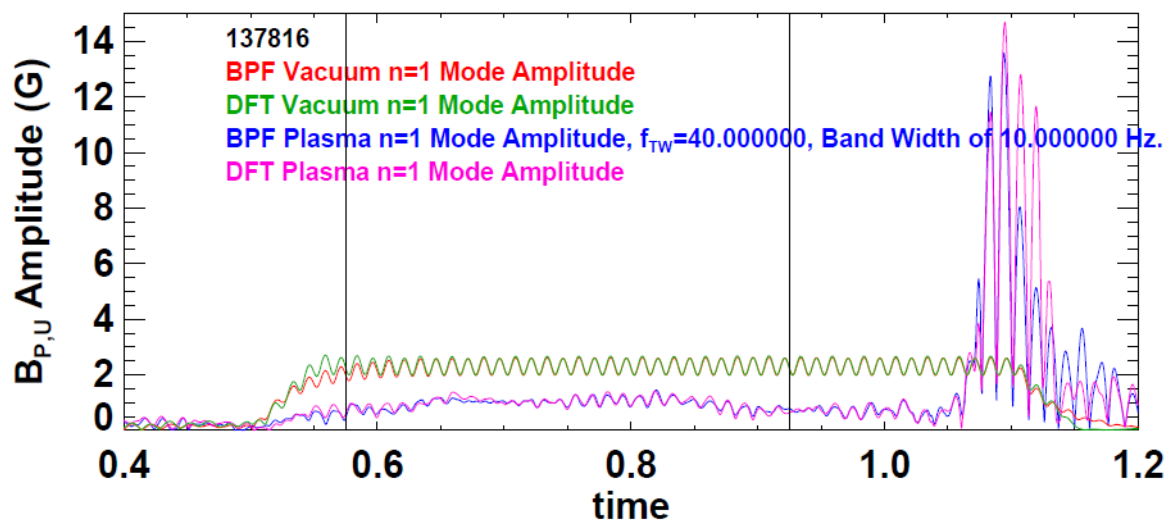
Department of Applied Physics, Columbia University, New York, NY, USA

NSTX Monday Physics Meeting
PPPL, Princeton, NJ
April 26th, 2010

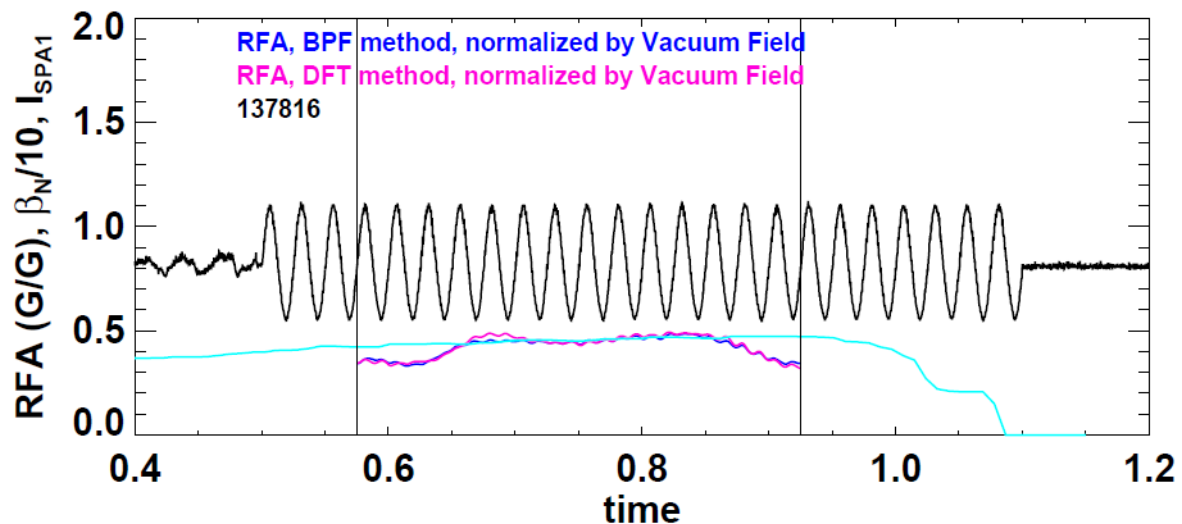


Culham Sci Ctr
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 RRC Kurchatov Inst
 TRINITY
 KBSI
 KAIST
 POSTECH
 ASIPP
 ENEA, Frascati
 CEA, Cadarache
 IPP, Jülich
 IPP, Garching
 ASCR, Czech Rep
 U Quebec

XP1020 RFA Analysis

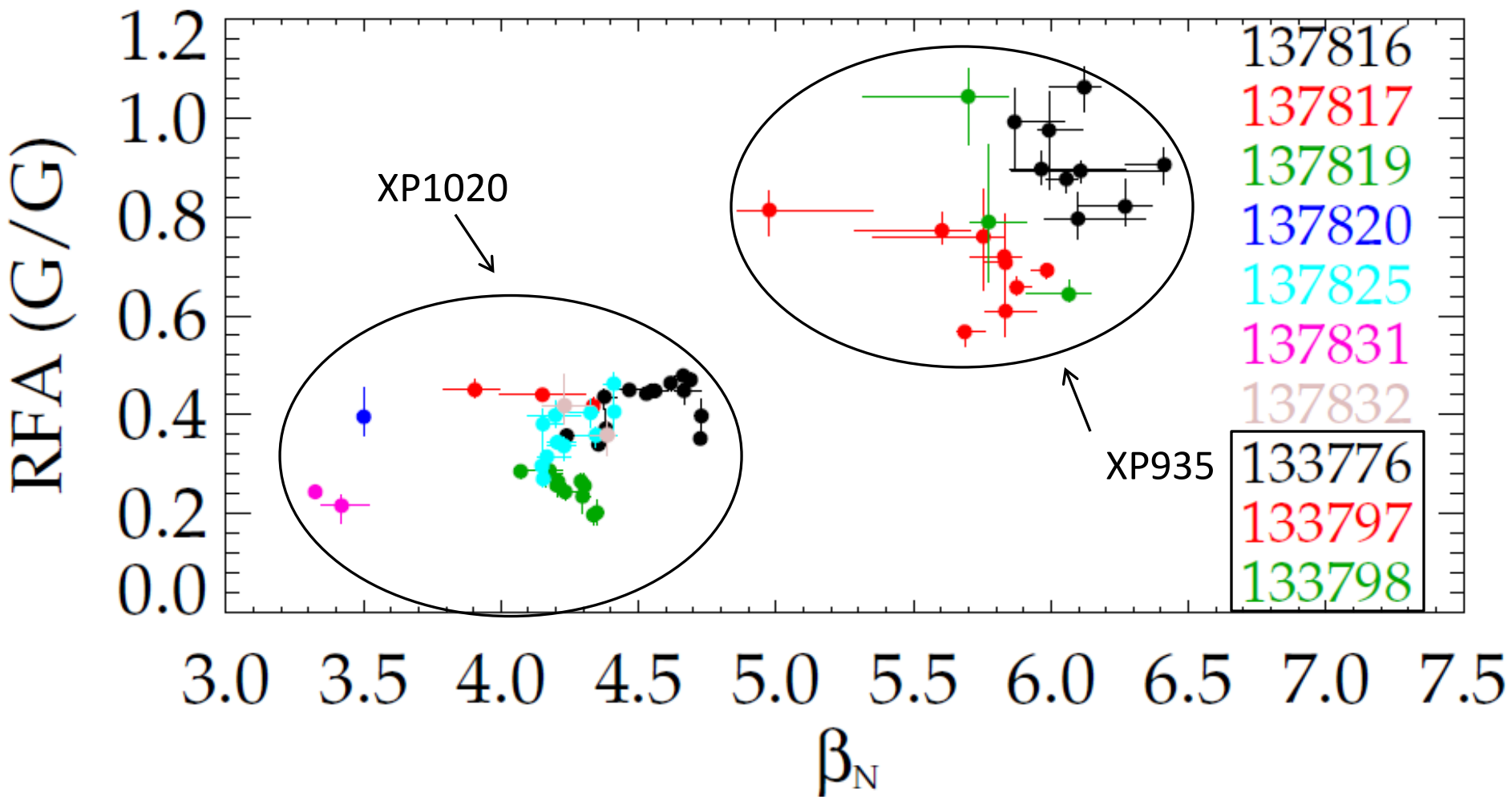


- Half day on 4/15:
 - 24 shots
 - 16 with AC fields
 - 7 had enough cycles before disruption for analysis (and Thomson)
 - 3 long periods
 - 4 short

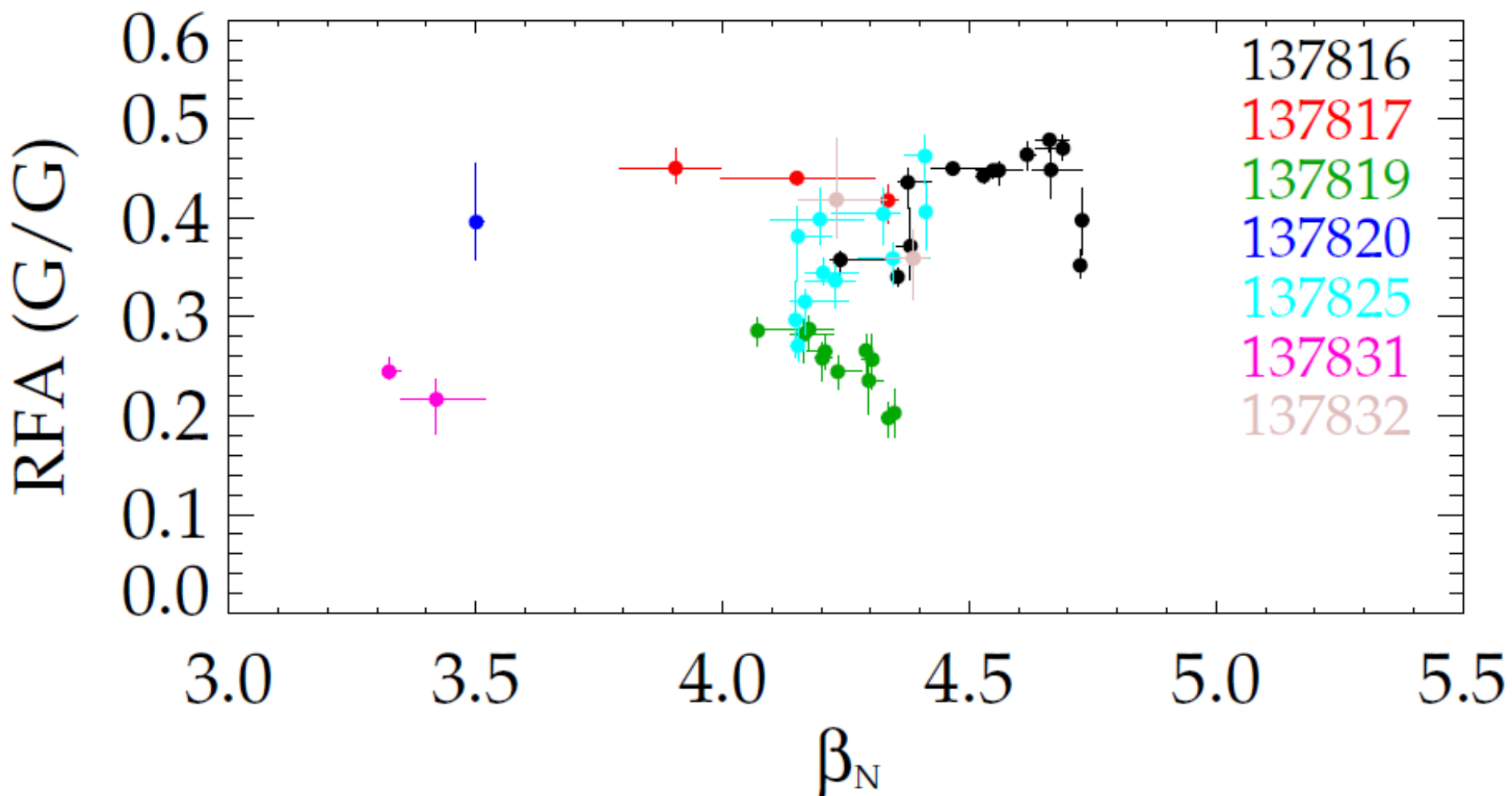


- RFA analysis code by S.P. Gerhardt

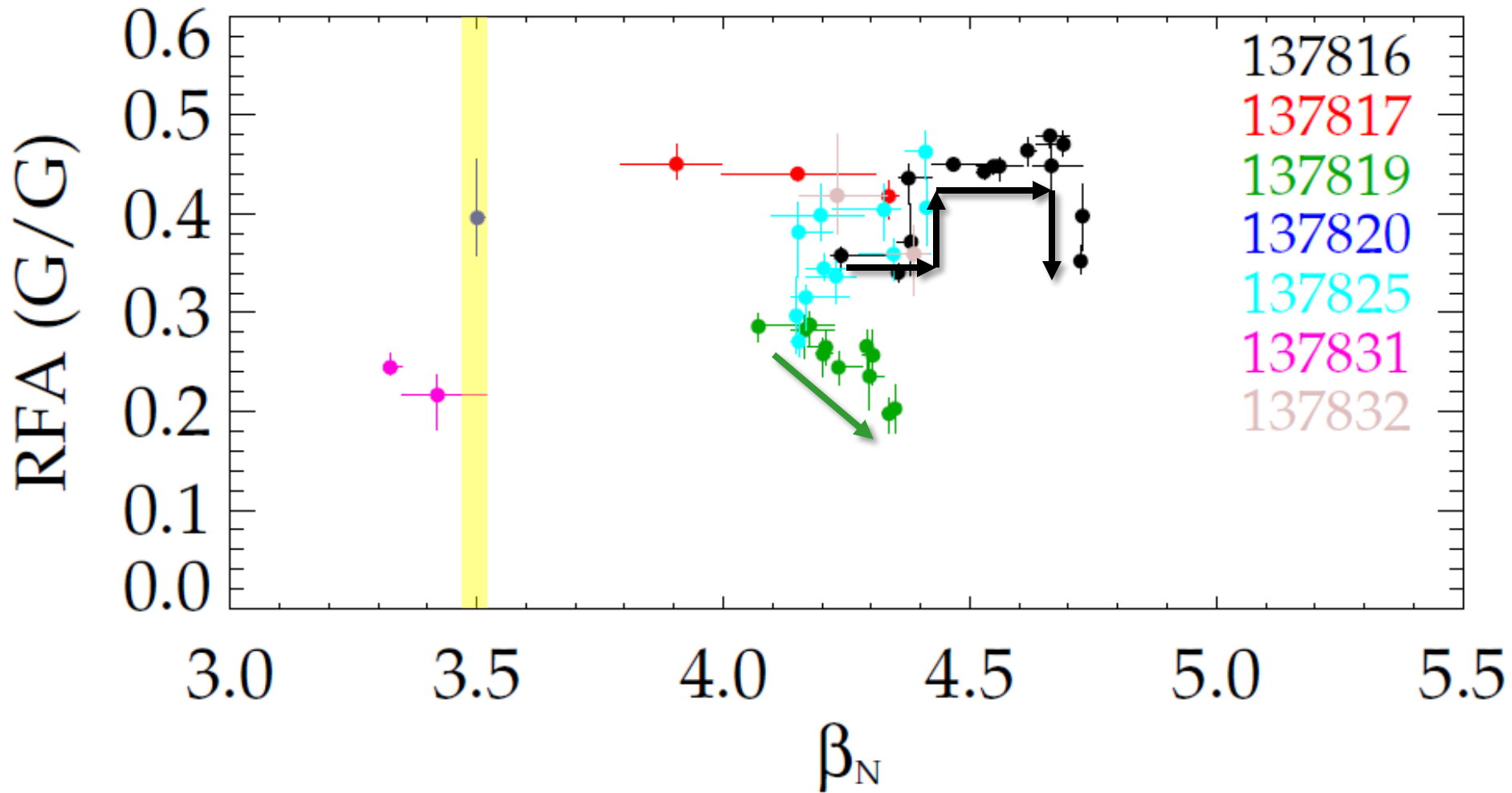
XP1020 RFA analysis



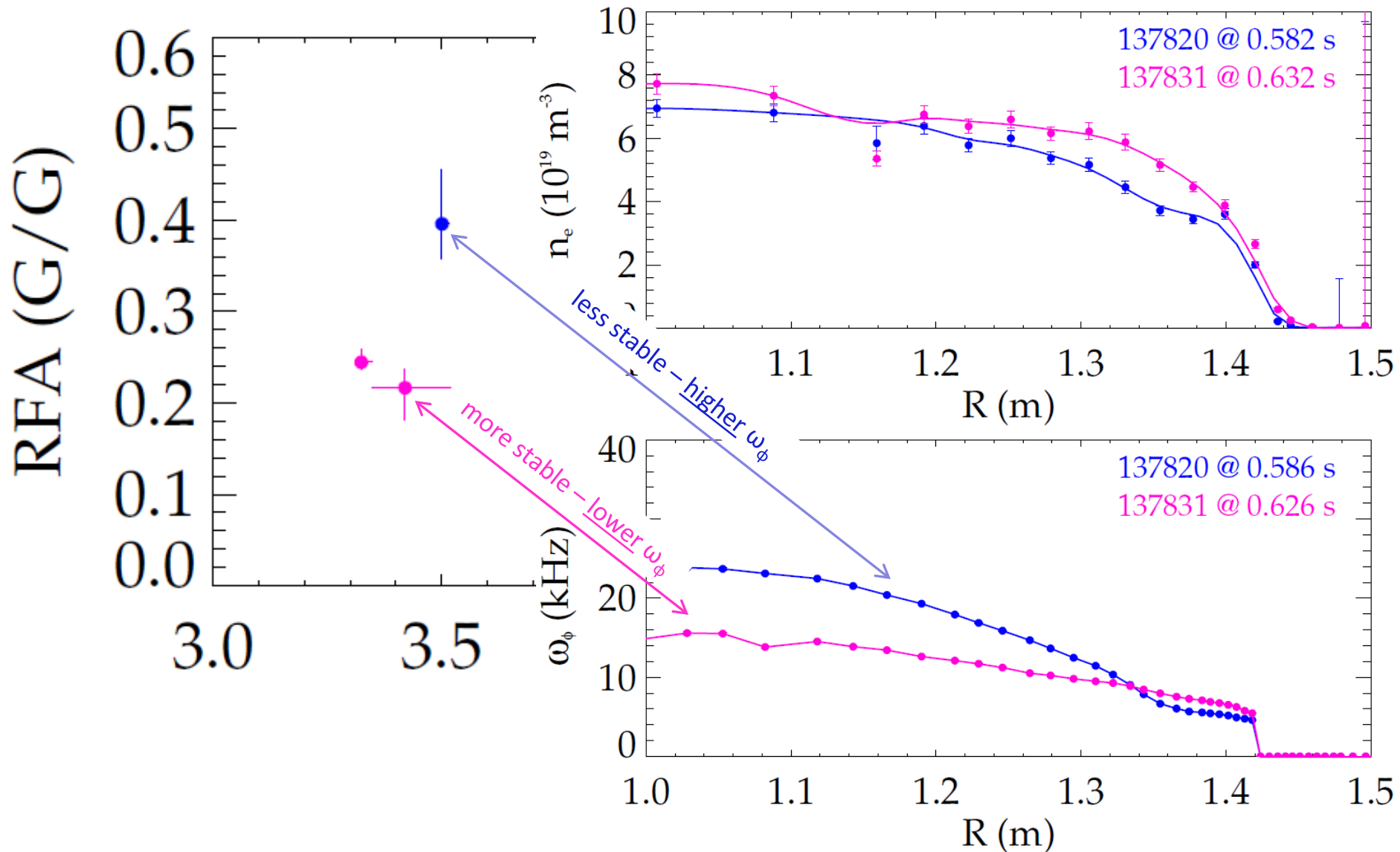
XP1020 RFA analysis



XP1020 RFA analysis

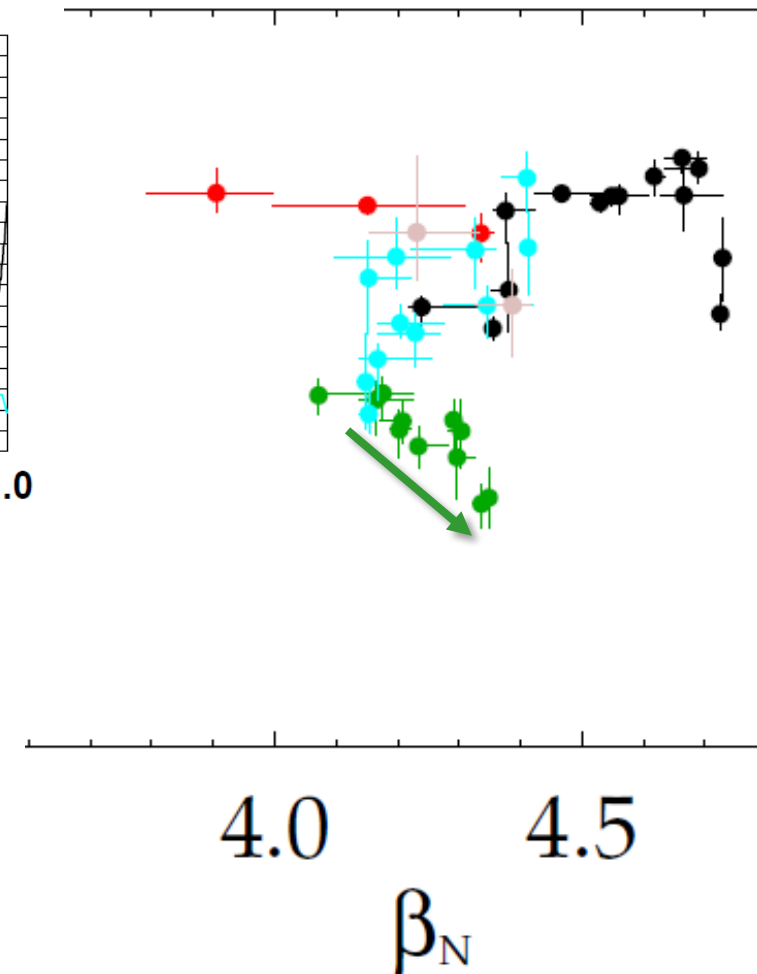
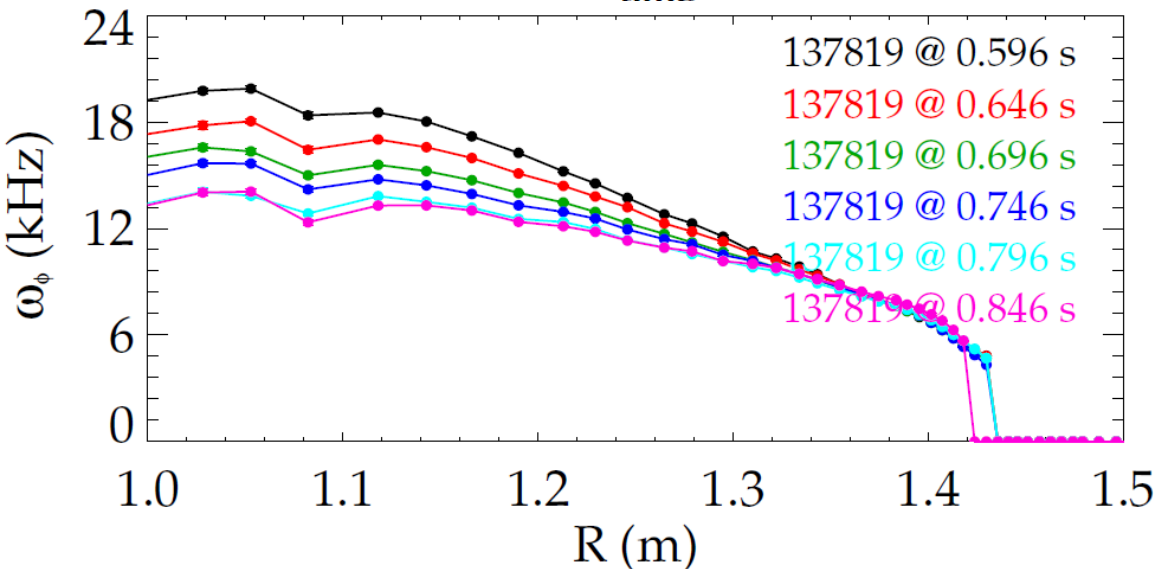
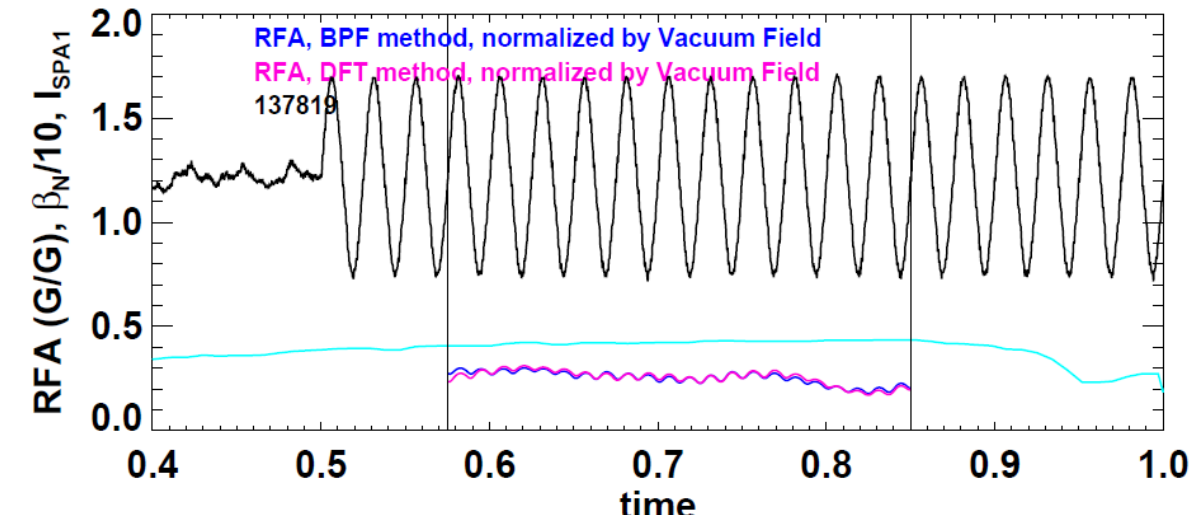


$\beta_N = 3.5$ comparison



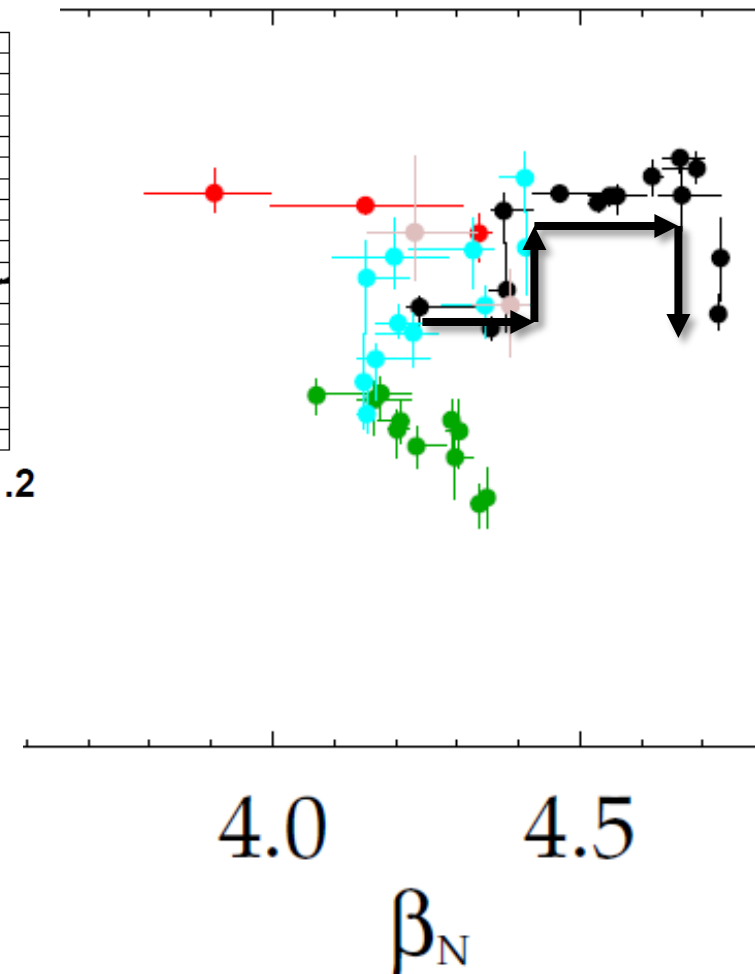
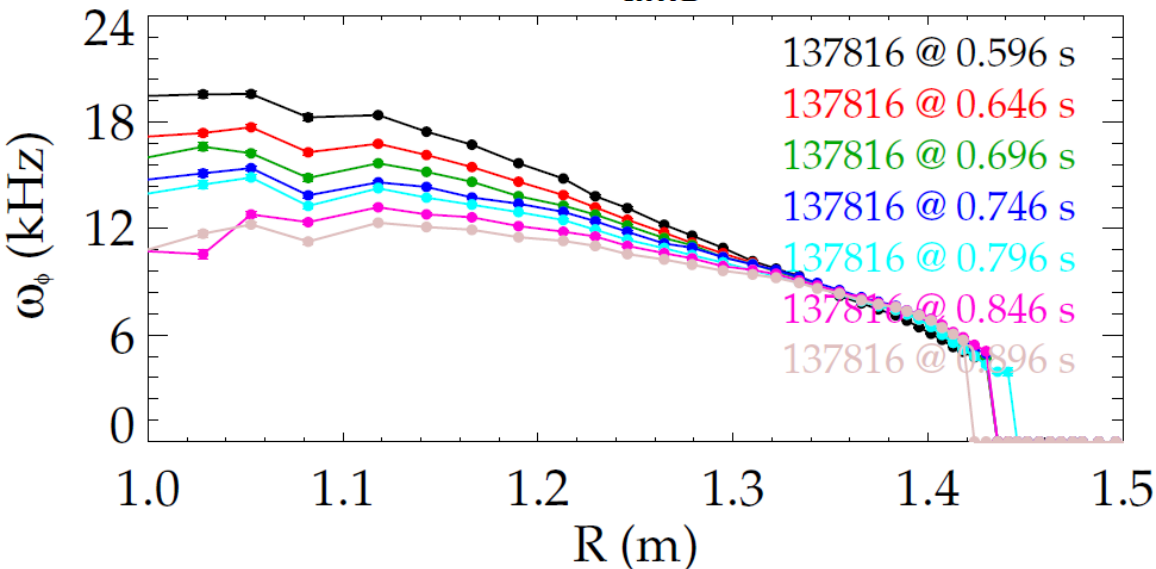
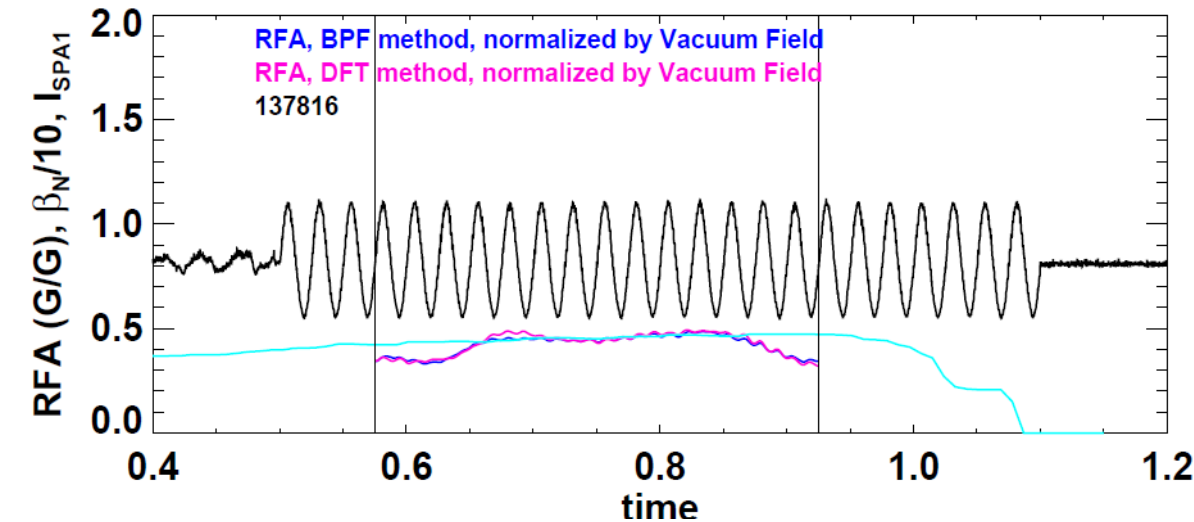
Evolution of RFA vs. time within a single shot, 137819

(Note: β_N and rotation are changing at the same time.)



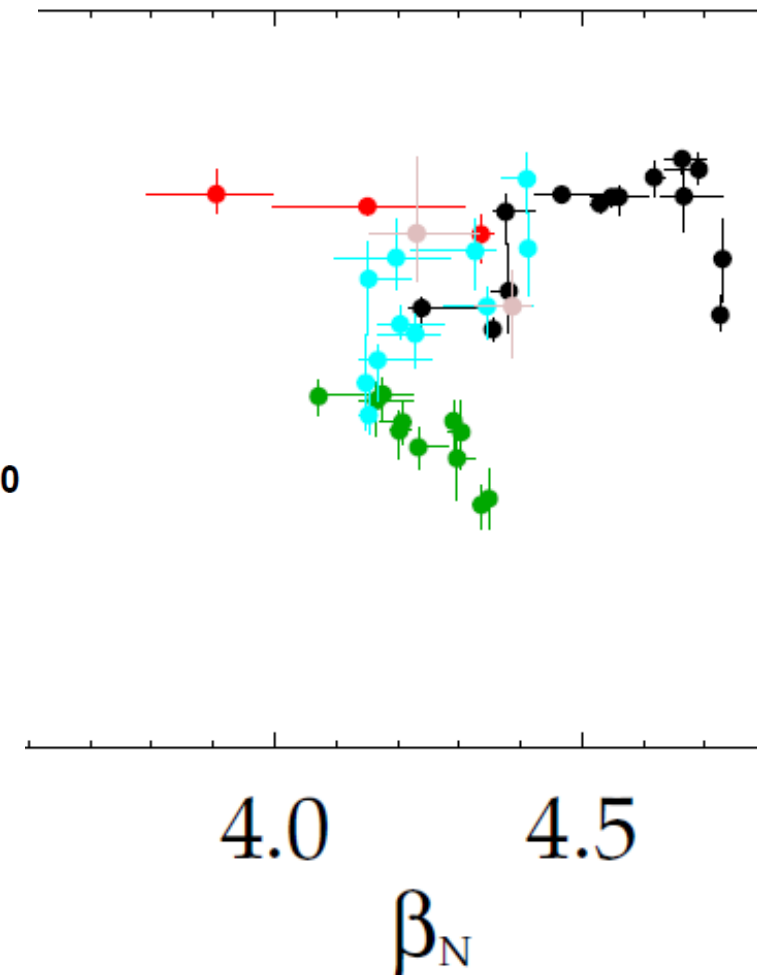
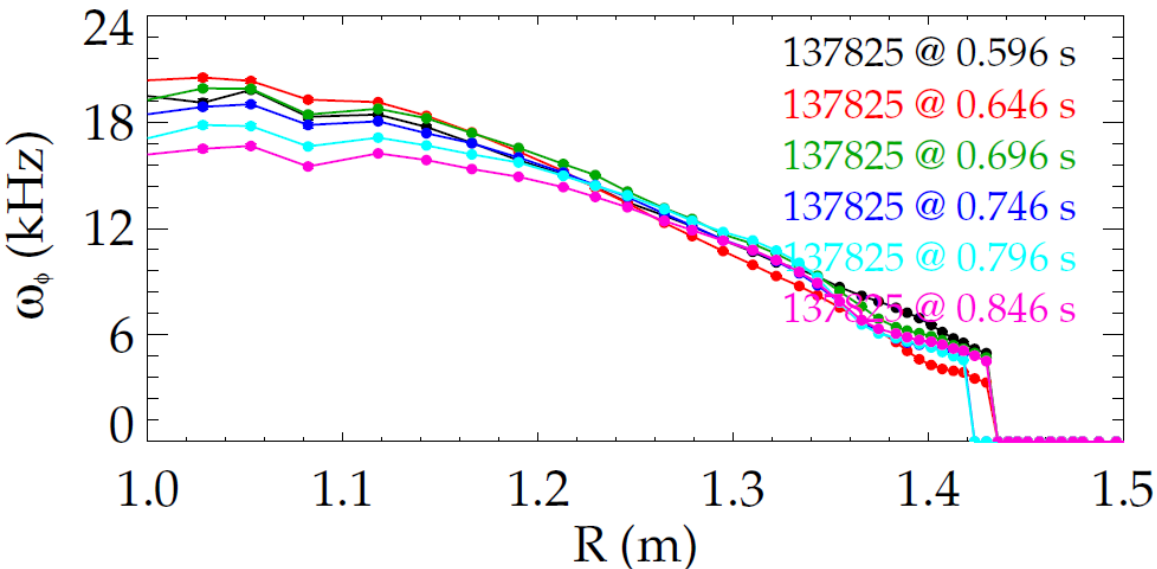
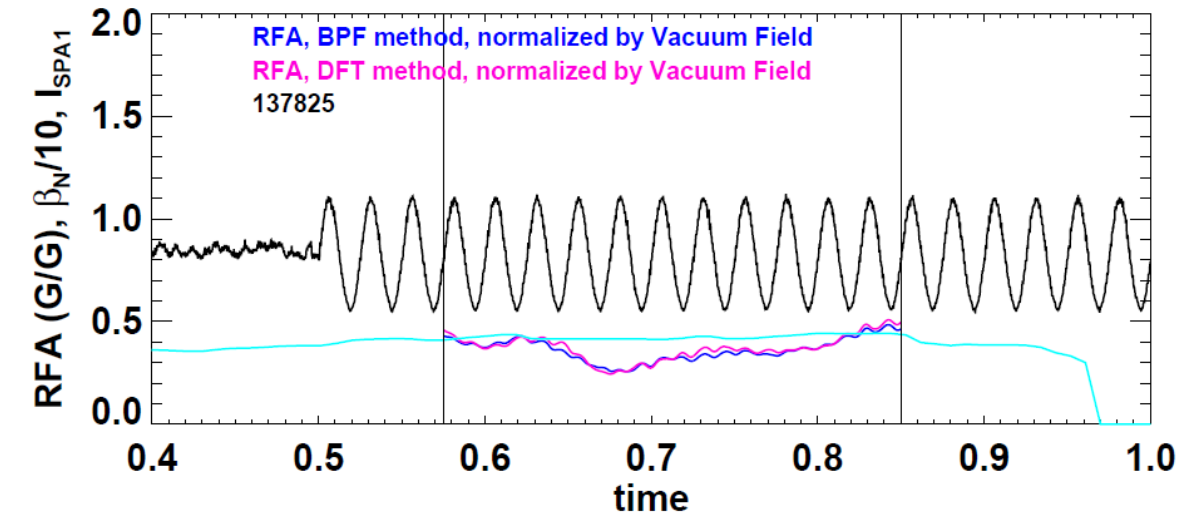
Evolution of RFA vs. time within a single shot, 137816

(Note: β_N and rotation are changing at the same time.)

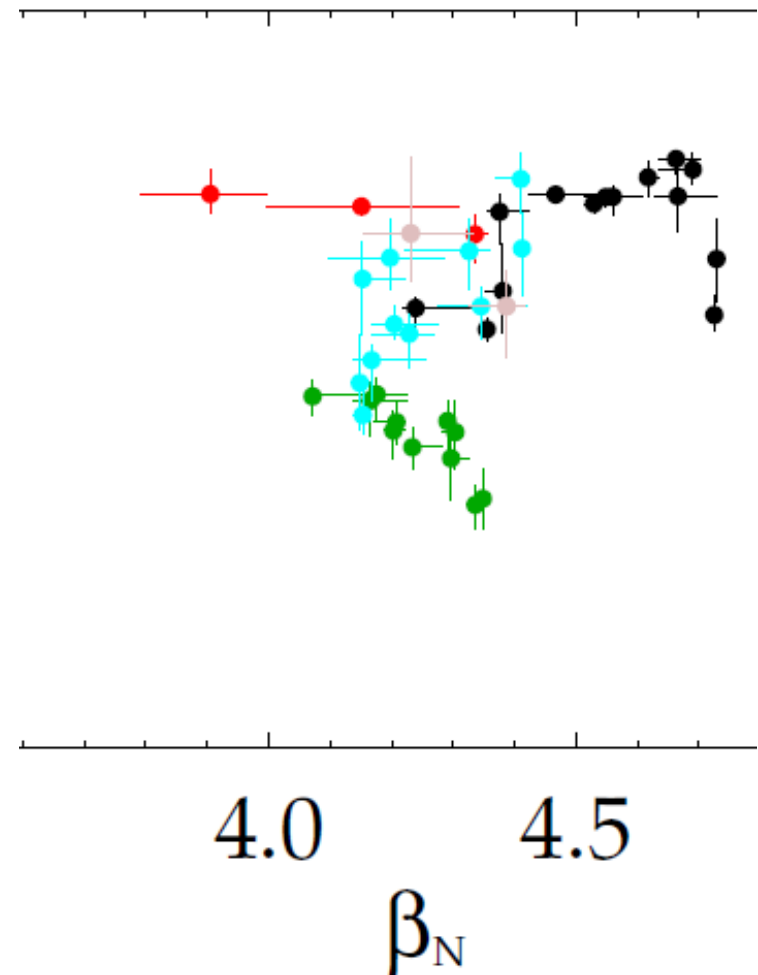
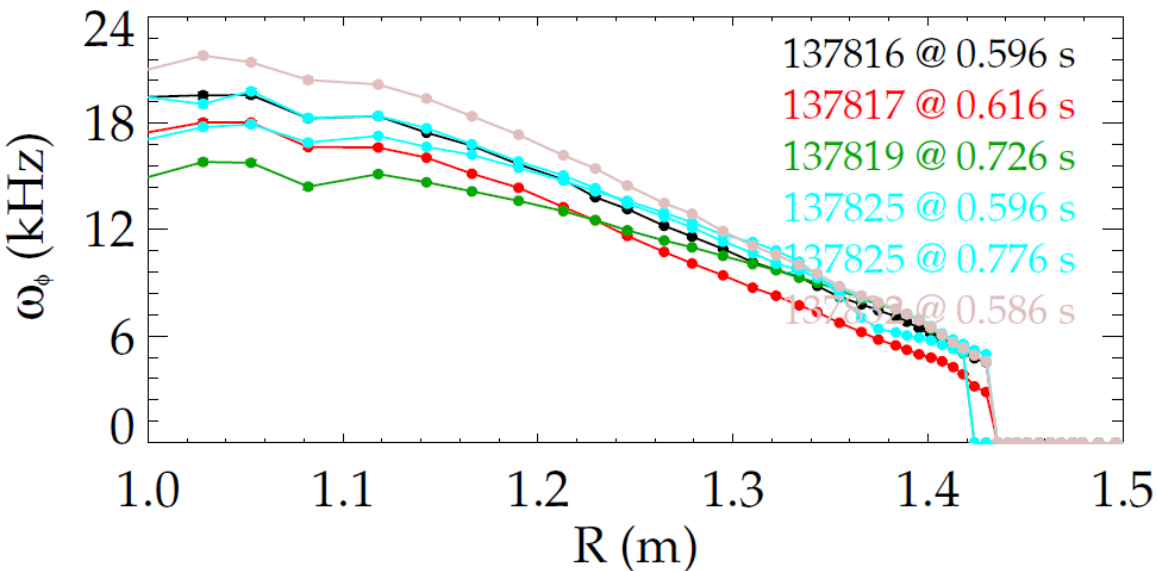
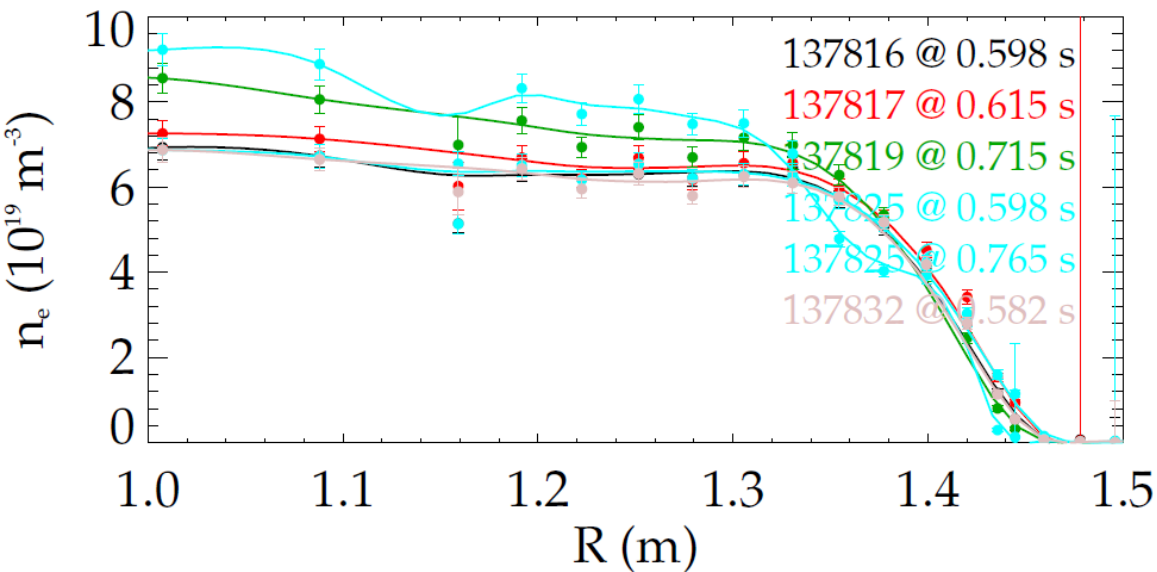


Evolution of RFA vs. time within a single shot, 137825

(Note: β_N and rotation are changing at the same time.)

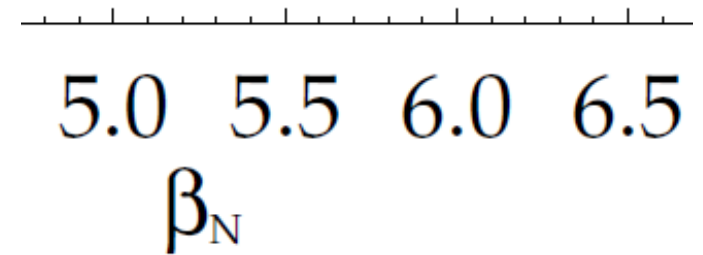
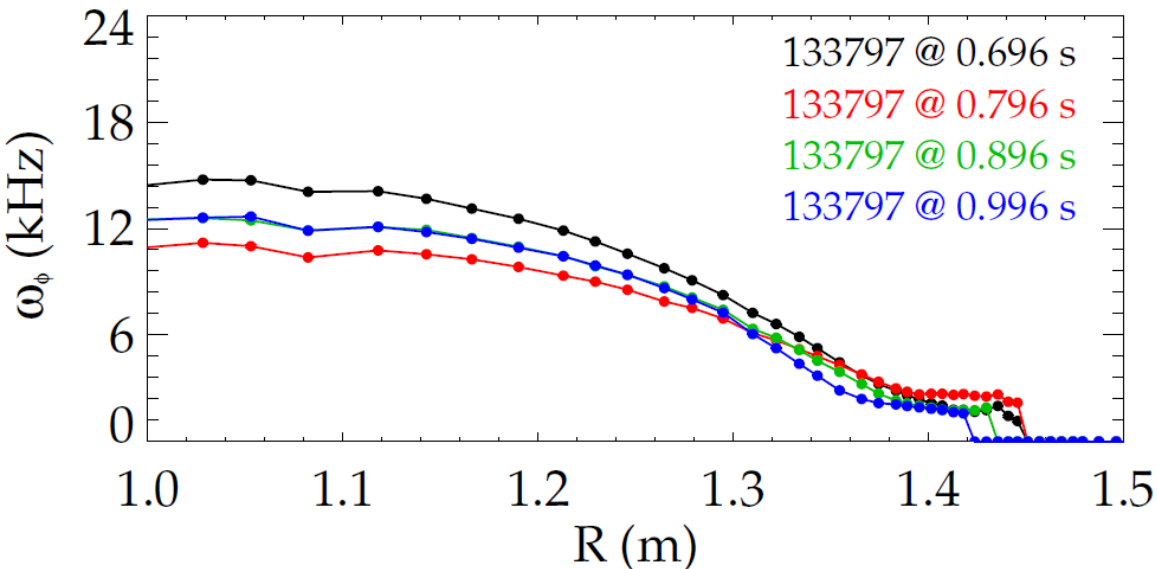
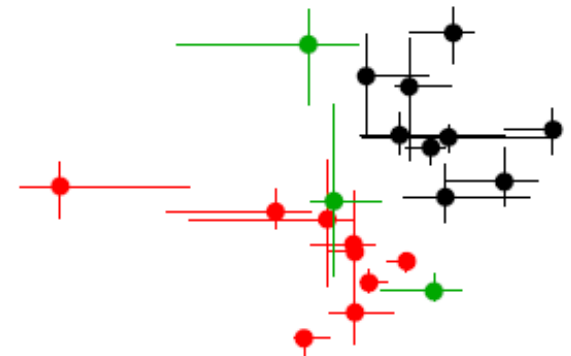
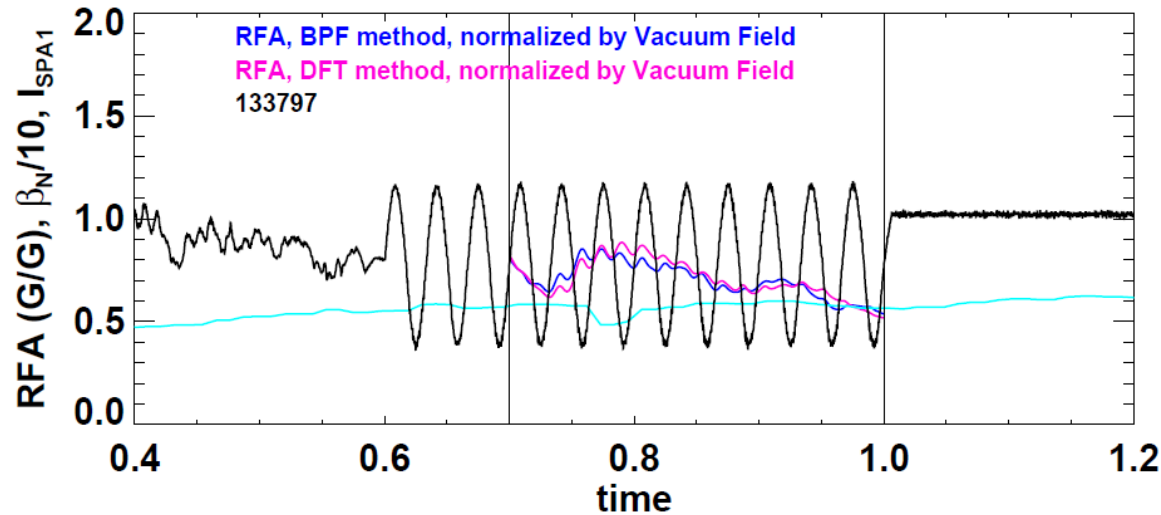


$\beta_N = 4.25$ comparison



Evolution of RFA vs. time within a single shot, 133797

(Note: β_N and rotation are changing at the same time.)



Evolution of RFA vs. time within a single shot, 133798

(Note: β_N and rotation are changing at the same time.)

