VMEC Convergence Studies for the C82 Con£guration

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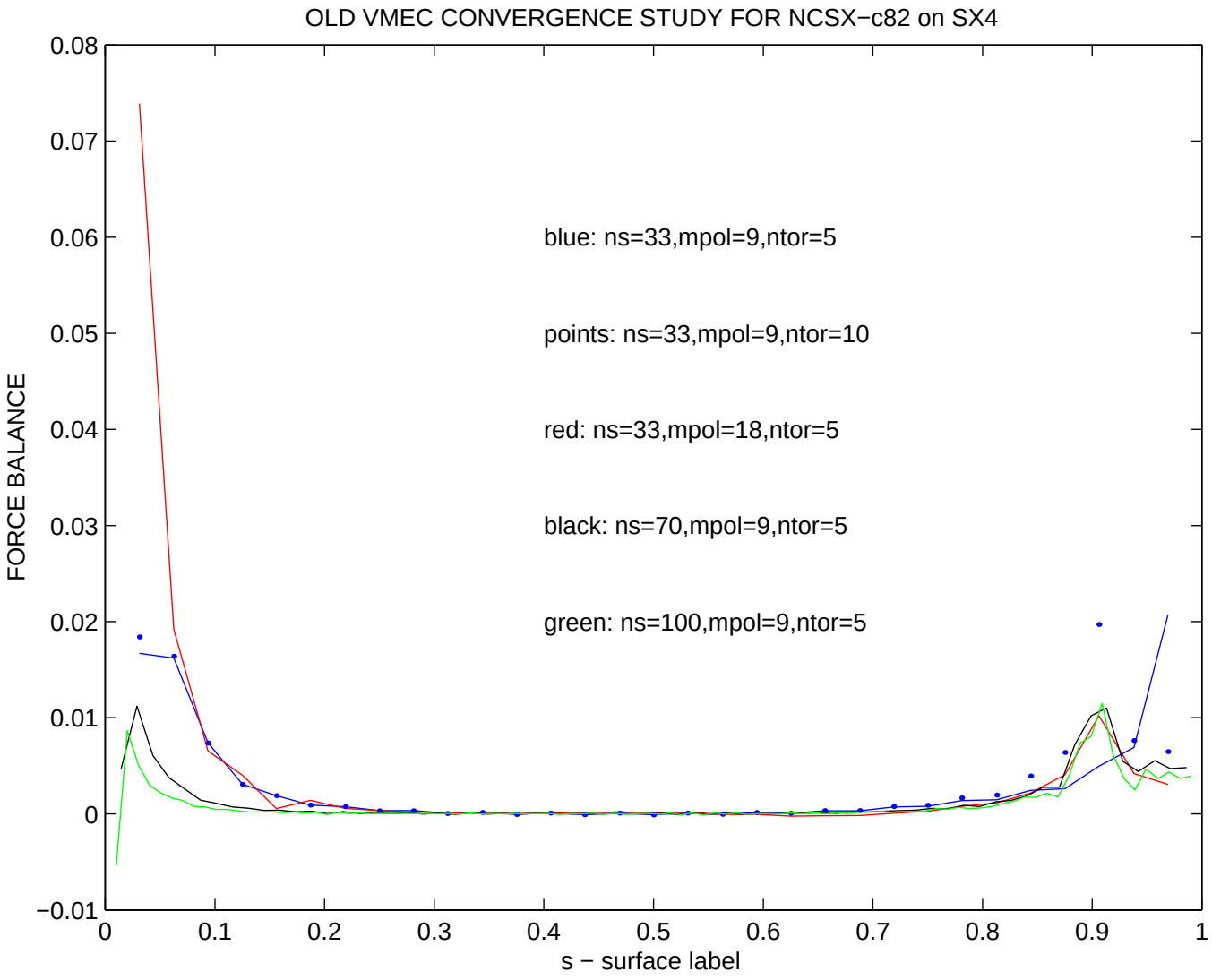
OLD VMEC CONVERGENCE STUDY FOR NCSX−c82 on SX4
blue: ns=33,mpol=9,ntor=5
points: ns=33,mpol=9,ntor=10
red: ns=33,mpol=18,ntor=5
black: ns=70,mpol=9,ntor=5
green: ns=100,mpol=9,ntor=5
FORCE BALANCE
s − surface label
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

Figure 1:

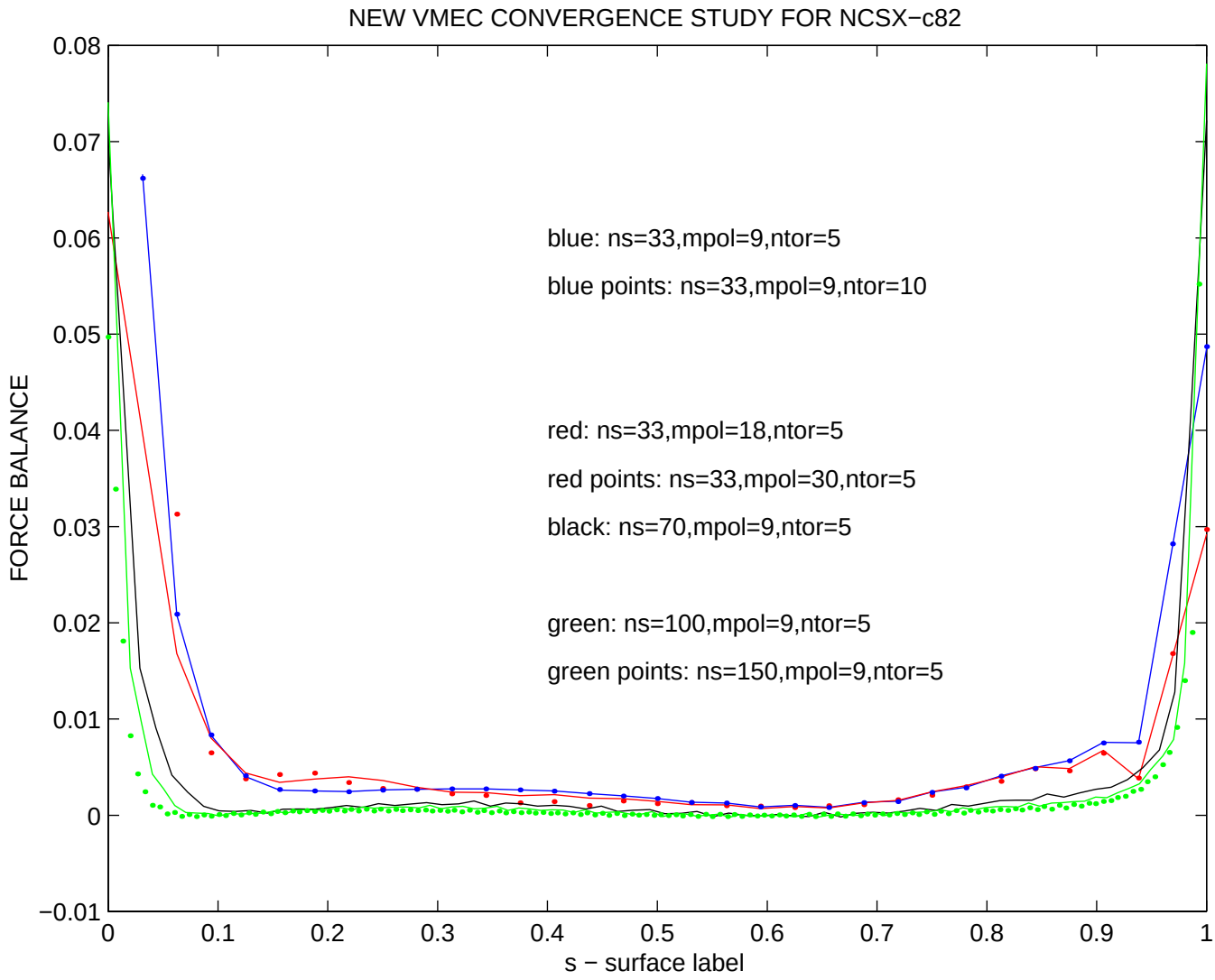
NEW VMEC CONVERGENCE STUDY FOR NCSX−c82
FORCE BALANCE
s − surface label
blue: ns=33,mpol=9,ntor=5
blue points: ns=33,mpol=9,ntor=10
red: ns=33,mpol=18,ntor=5
red points: ns=33,mpol=30,ntor=5
black: ns=70,mpol=9,ntor=5
green: ns=100,mpol=9,ntor=5
green points: ns=150,mpol=9,ntor=5
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

Figure 2:

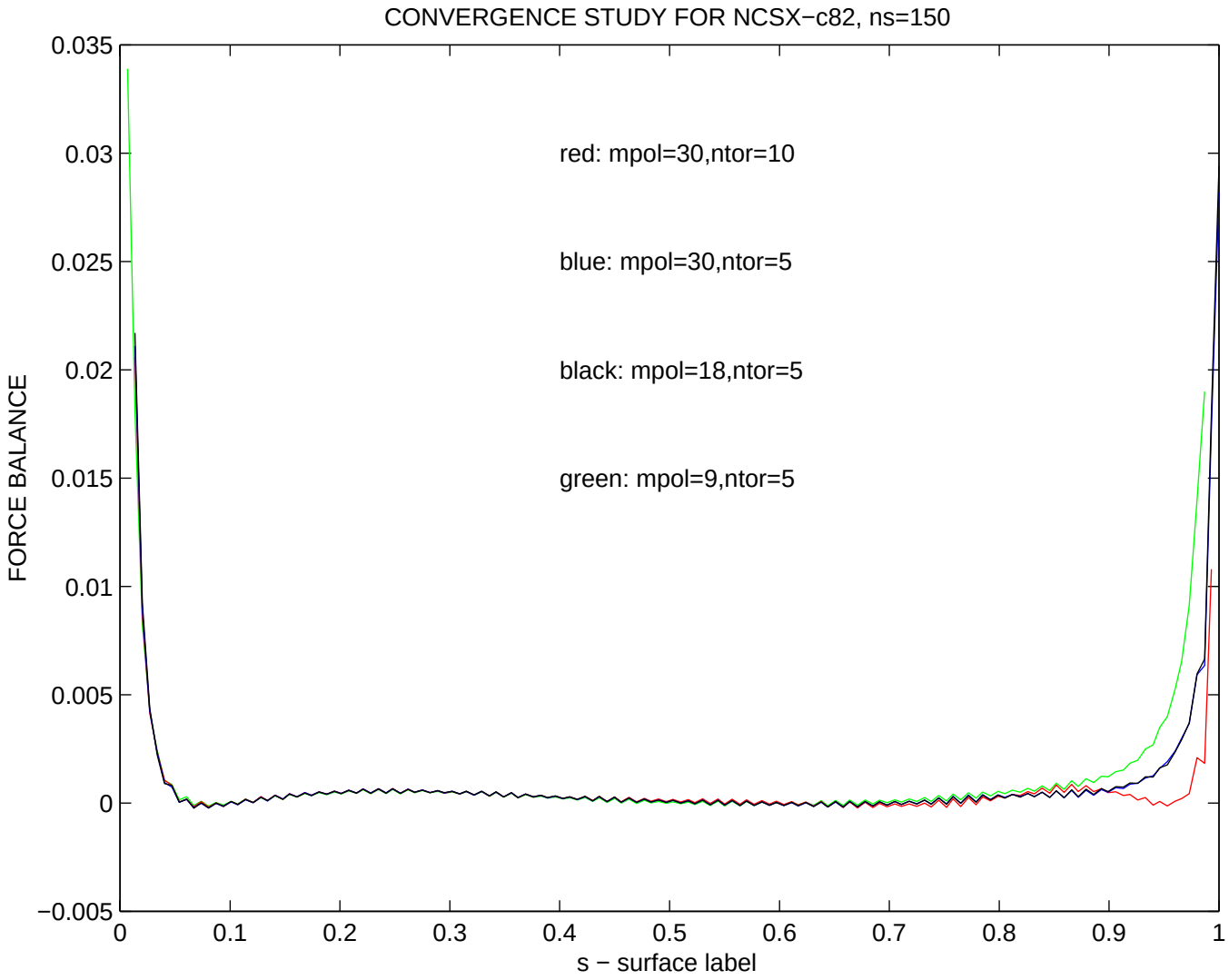
CONVERGENCE STUDY FOR NCSX−c82, ns=150
red: mpol=30,ntor=10
blue: mpol=30,ntor=5
black: mpol=18,ntor=5
green: mpol=9,ntor=5
FORCE BALANCE
s − surface label
0.035
0.03
0.025
0.02
0.015
0.01
0.005
0
−0.005
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

Figure 3: