1

ELEMENTS

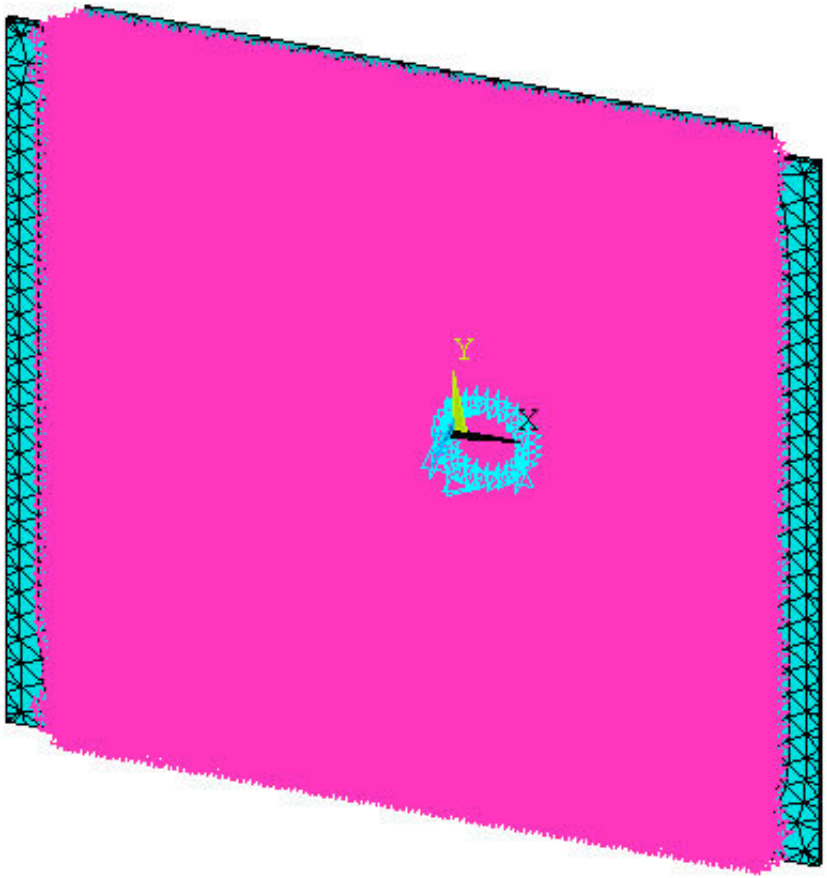
U

CE

ANSYS

MAY 29 2003

09:08:22



SNAP CCD analysis, AlN Substrate

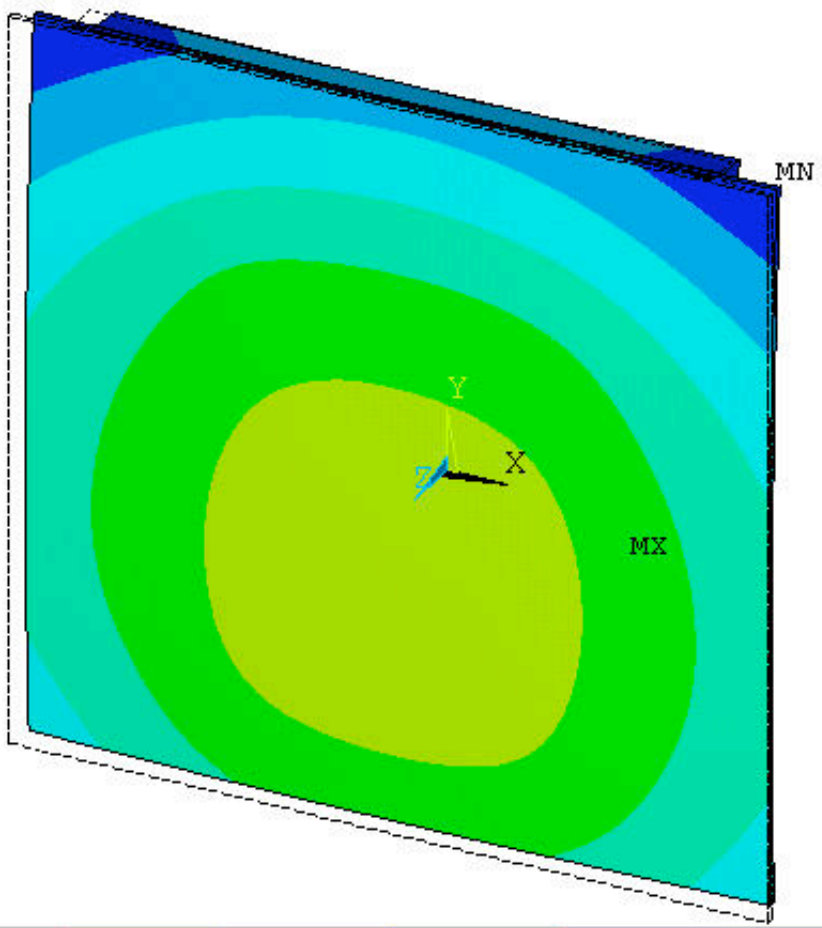
1

NODAL SOLUTION

STEP=1
SUB =1
TIME=1
UZ (AVG)
RSYS=0
DMX =.018875
SMN =-.017337
SMX =.004171

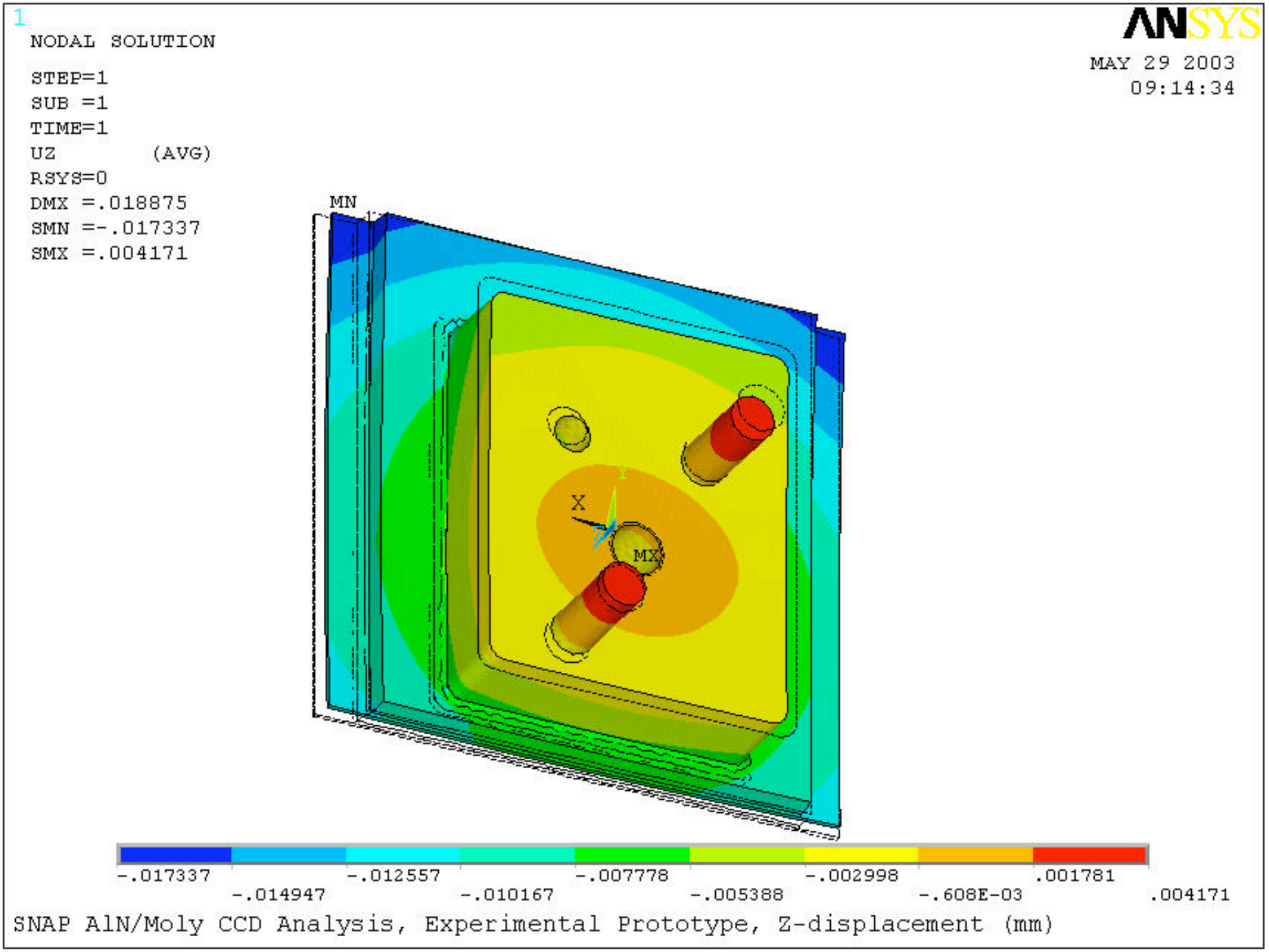
ANSYS

MAY 29 2003
09:14:07



-.017337 -.014947 -.012557 -.010167 -.007778 -.005388 -.002998 -.608E-03 .001781 .004171

SNAP AlN/Moly CCD Analysis, Experimental Prototype, Z-displacement (mm)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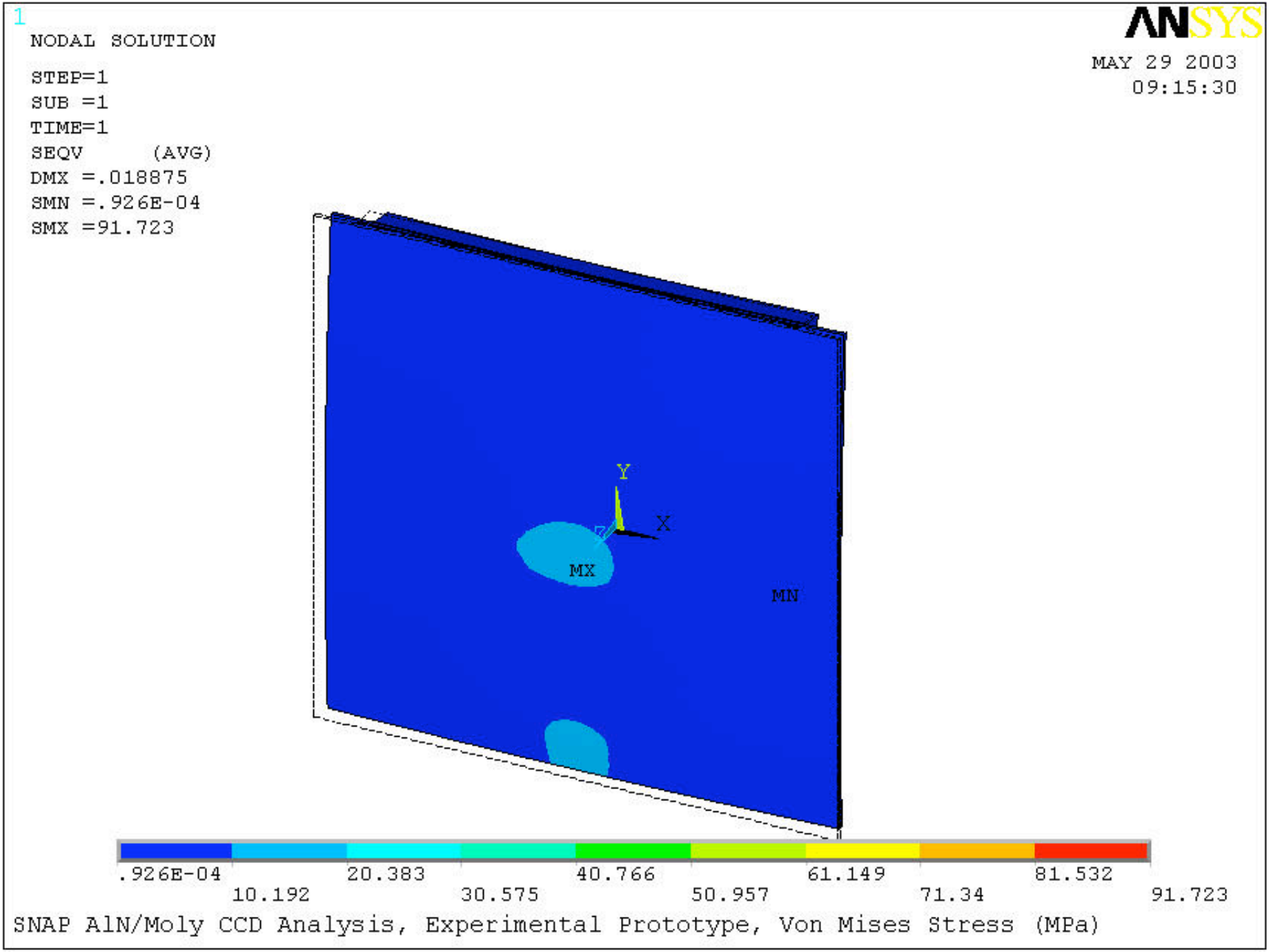
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
UZ (AVG)
RSYS=0
DMX =.018875
SMN =-.017337
SMX =.004171
ANSYS
MAY 29 2003
09:14:34
MN
MX
-.017337
-.014947
-.012557
-.010167
-.007778
-.005388
-.002998
-.608E-03
.001781
.004171
SNAP AlN/Moly CCD Analysis, Experimental Prototype, Z-displacement (mm)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NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SEQV (AVG)
DMX =.018875
SMN =.926E-04
SMX =91.723
ANSYS
MAY 29 2003
09:15:30
Y
X
MX
MN
.926E-04
10.192
20.383
30.575
40.766
50.957
61.149
71.34
81.532
91.723
SNAP AlN/Moly CCD Analysis, Experimental Prototype, Von Mises Stress (MPa)

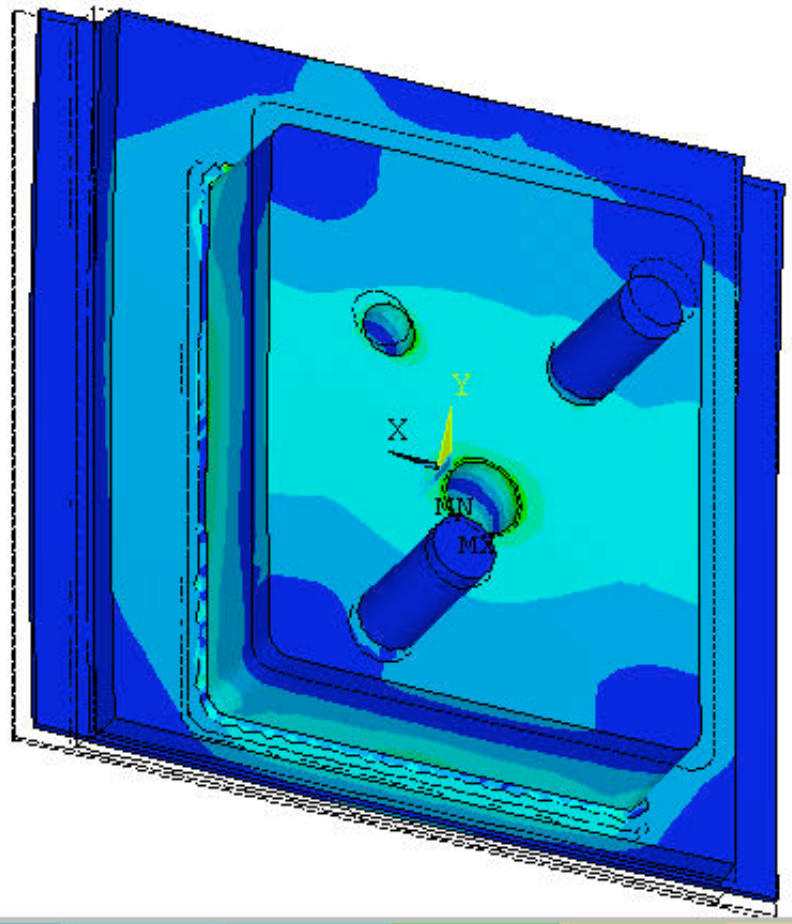
1

NODAL SOLUTION

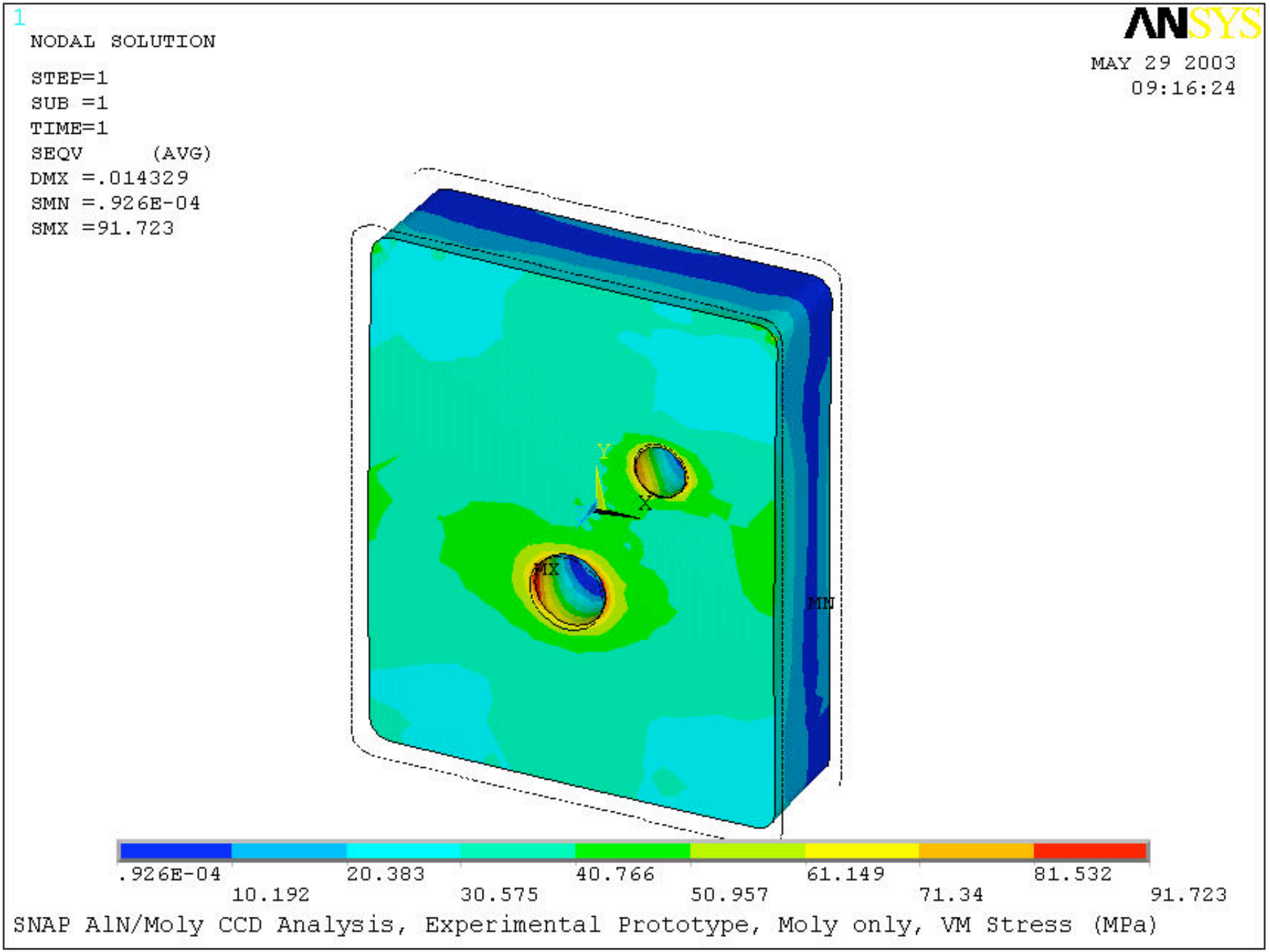
STEP=1
SUB =1
TIME=1
SEQV (AVG)
DMX =.018875
SMN =.926E-04
SMX =91.723

ANSYS

MAY 29 2003
09:15:45



SNAP AlN/Moly CCD Analysis, Experimental Prototype, Von Mises Stress (MPa)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NODAL SOLUTION
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TIME=1
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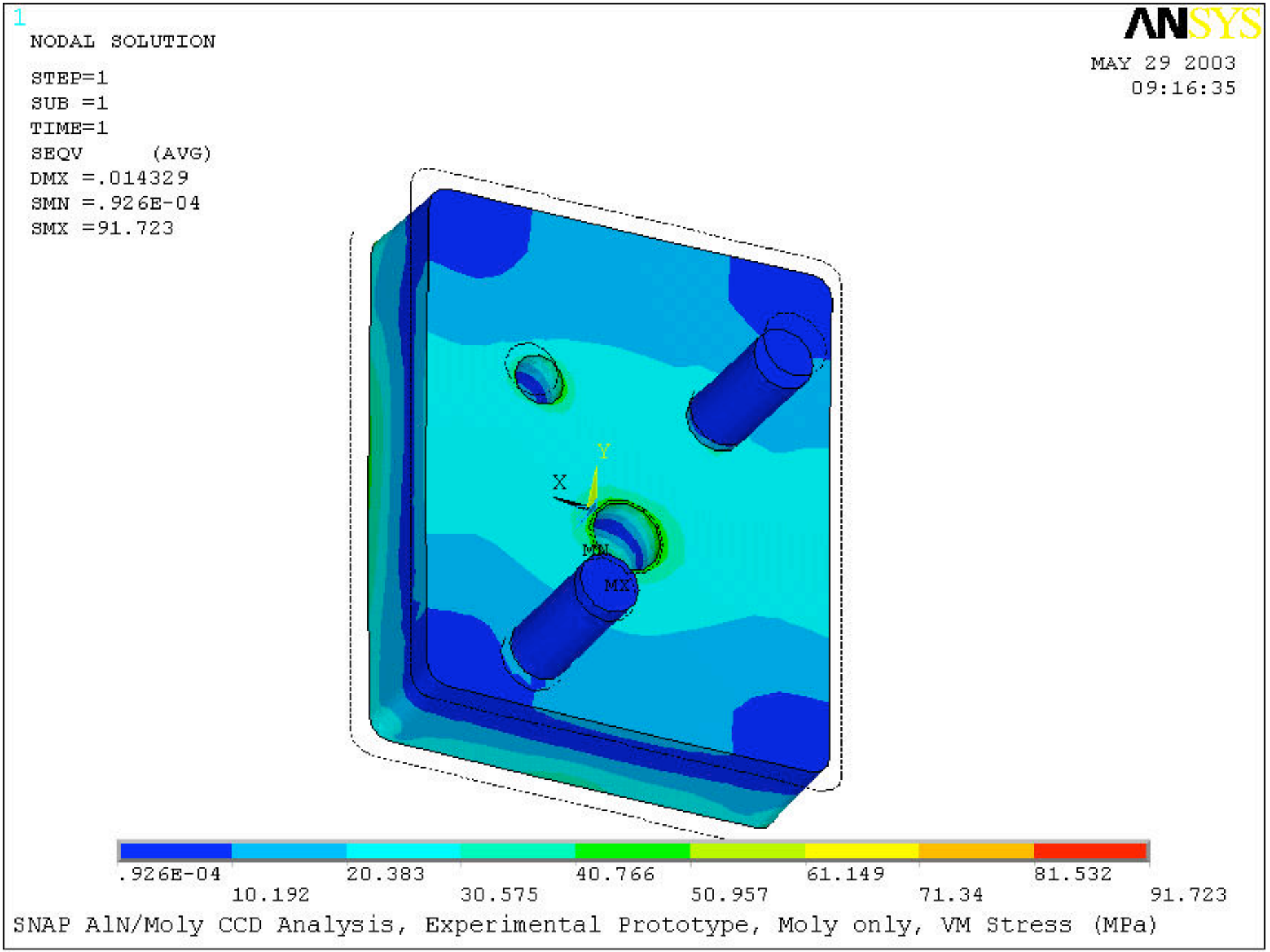
SMX =91.723
ANSYS
MAY 29 2003
09:16:24
MX
MN
.926E-04
10.192
20.383
30.575
40.766
50.957
61.149
71.34
81.532
91.723
SNAP AlN/Moly CCD Analysis, Experimental Prototype, Moly only, VM Stress (MPa)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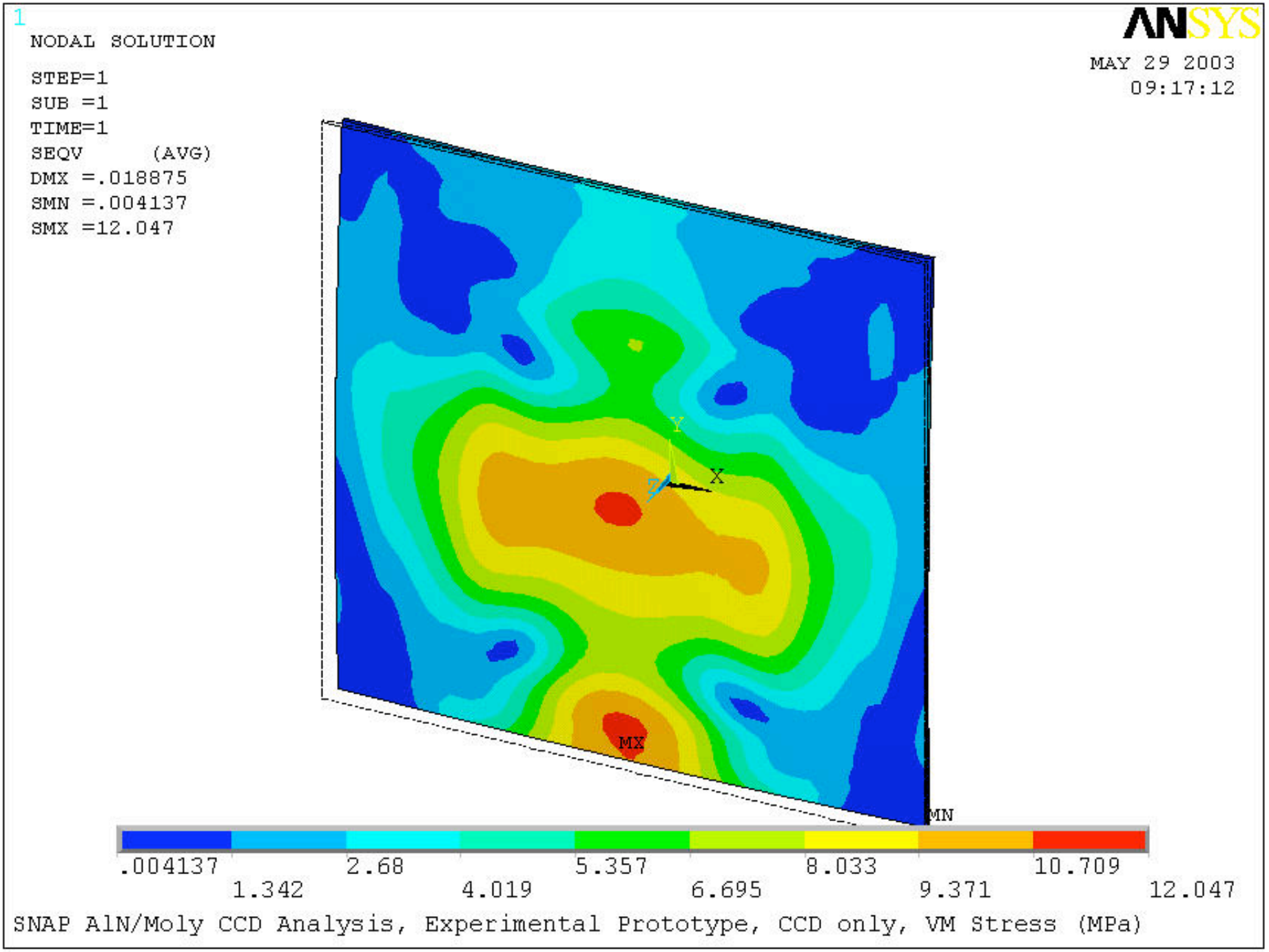
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SEQV (AVG)
DMX =.014329
SMN =.926E-04
SMX =91.723
ANSYS
MAY 29 2003
09:16:35
Y
X
MN
MX
.926E-04
10.192
20.383
30.575
40.766
50.957
61.149
71.34
81.532
91.723
SNAP AlN/Moly CCD Analysis, Experimental Prototype, Moly only, VM Stress (MPa)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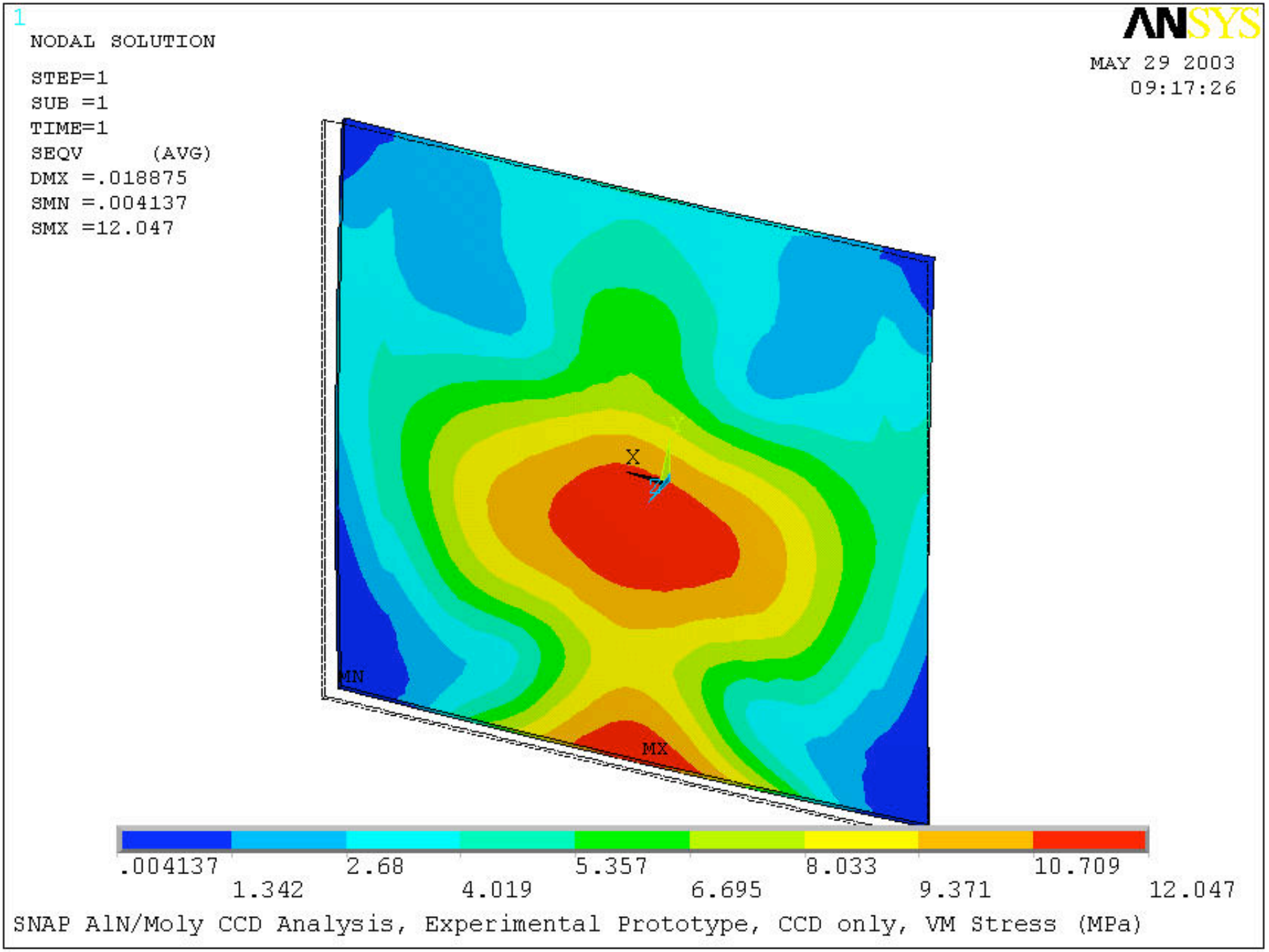
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SEQV (AVG)
DMX =.018875
SMN =.004137
SMX =12.047
ANSYS
MAY 29 2003
09:17:12
Y
Z
X
MX
MN
.004137
1.342
2.68
4.019
5.357
6.695
8.033
9.371
10.709
12.047
SNAP AlN/Moly CCD Analysis, Experimental Prototype, CCD only, VM Stress (MPa)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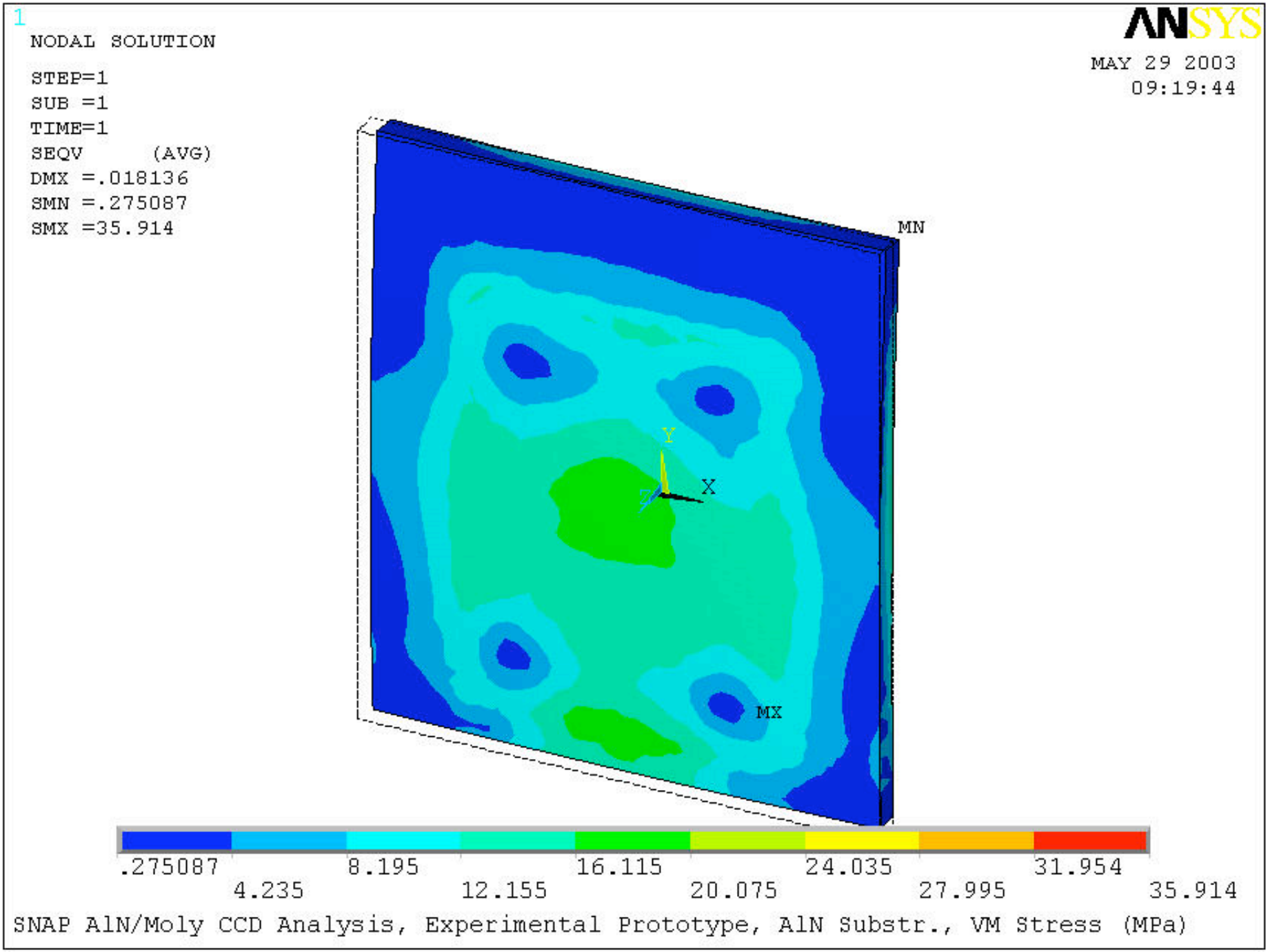
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SEQV (AVG)
DMX =.018875
SMN =.004137
SMX =12.047
ANSYS
MAY 29 2003
09:17:26
MN
MX
.004137
1.342
2.68
4.019
5.357
6.695
8.033
9.371
10.709
12.047
SNAP AlN/Moly CCD Analysis, Experimental Prototype, CCD only, VM Stress (MPa)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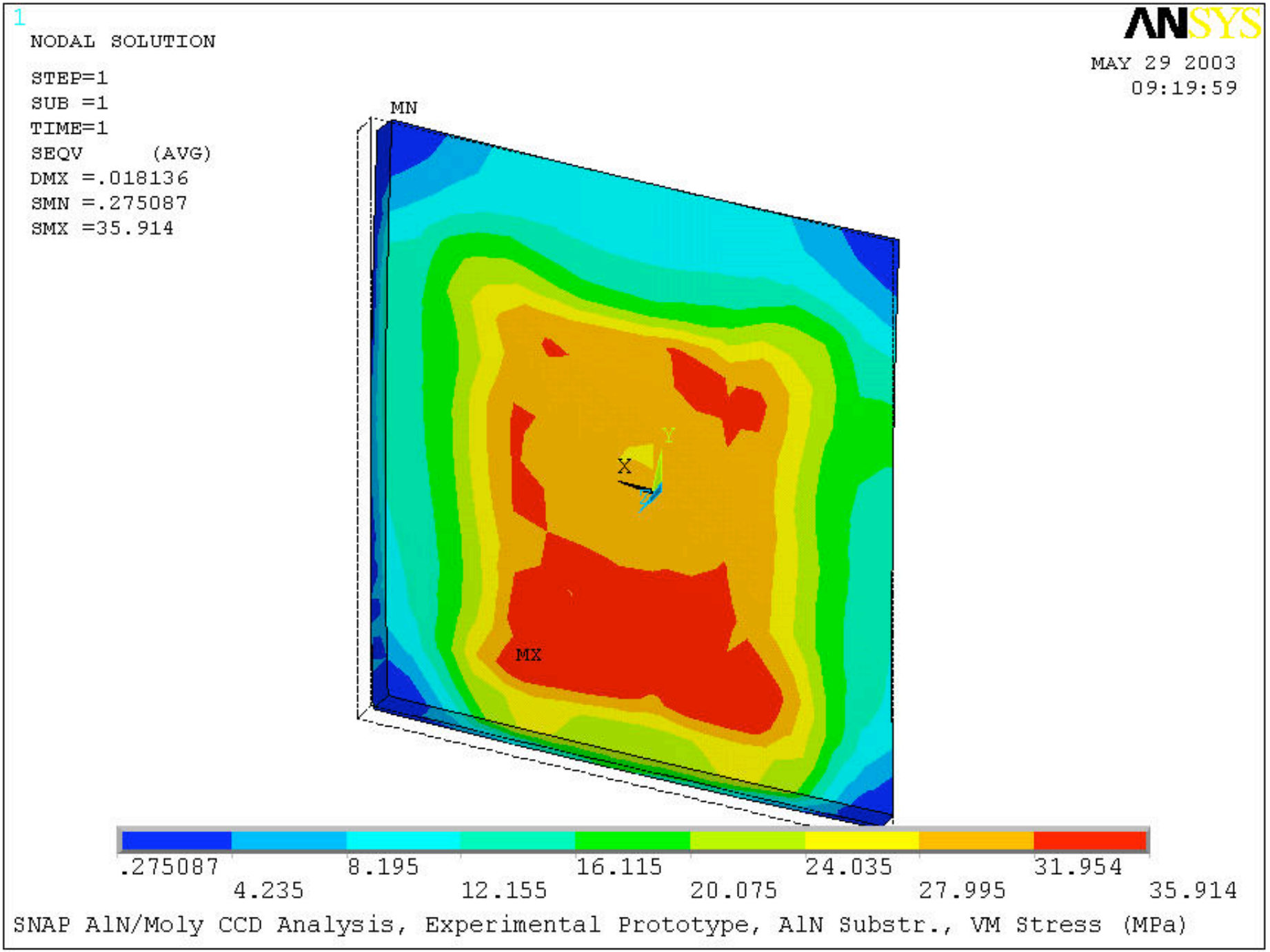
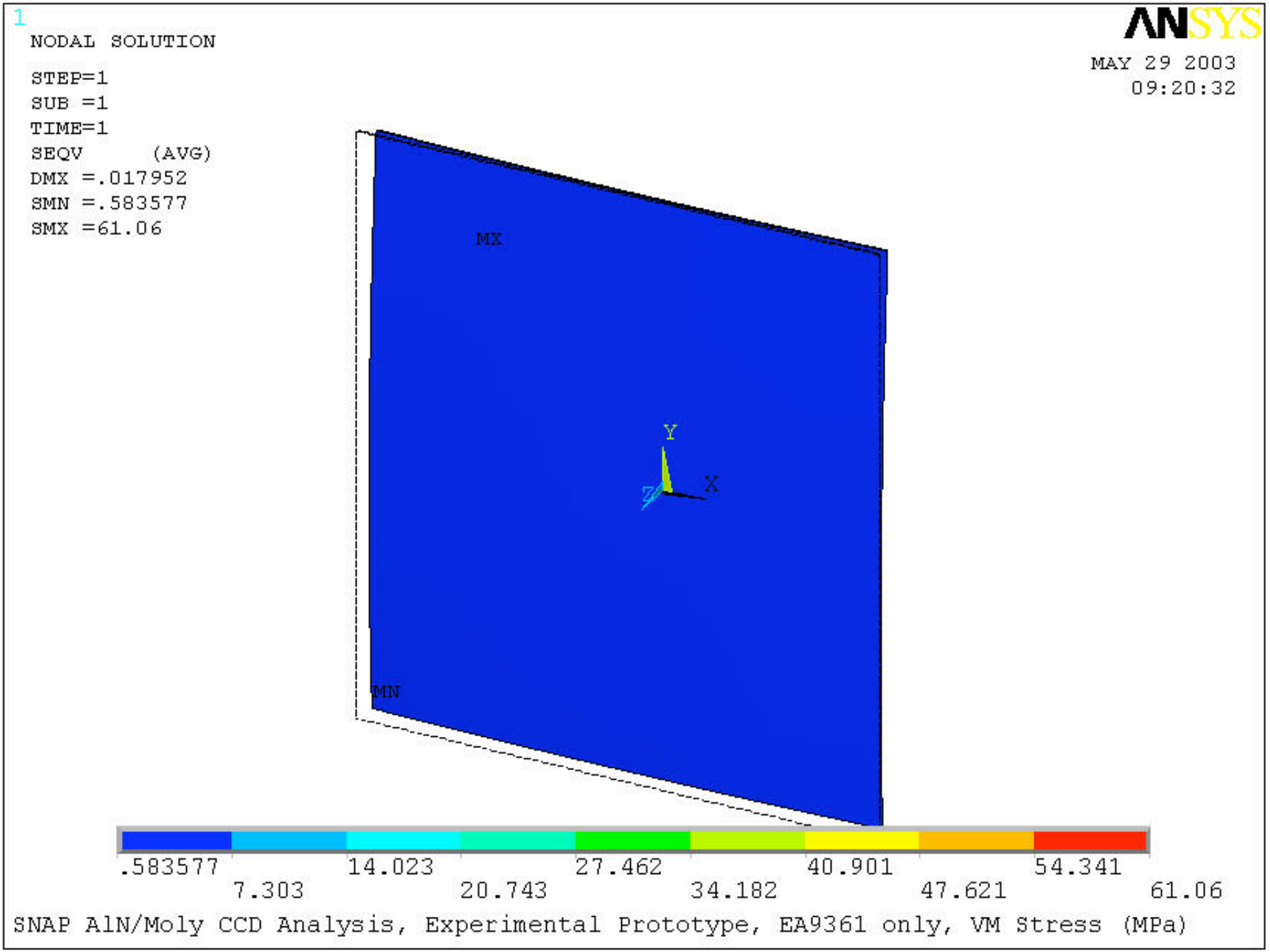
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SEQV (AVG)
DMX =.018136
SMN =.275087
SMX =35.914
ANSYS
MAY 29 2003
09:19:44
MN
MX
Y
X
Z
.275087
4.235
8.195
12.155
16.115
20.075
24.035
27.995
31.954
35.914
SNAP AlN/Moly CCD Analysis, Experimental Prototype, AlN Substr., VM Stress (MPa)


1
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SEQV (AVG)
DMX =.018136
SMN =.275087
SMX =35.914
ANSYS
MAY 29 2003
09:19:59
MN
MX
Y
X
Z
.275087
4.235
8.195
12.155
16.115
20.075
24.035
27.995
31.954
35.914
SNAP AlN/Moly CCD Analysis, Experimental Prototype, AlN Substr., VM Stress (MPa)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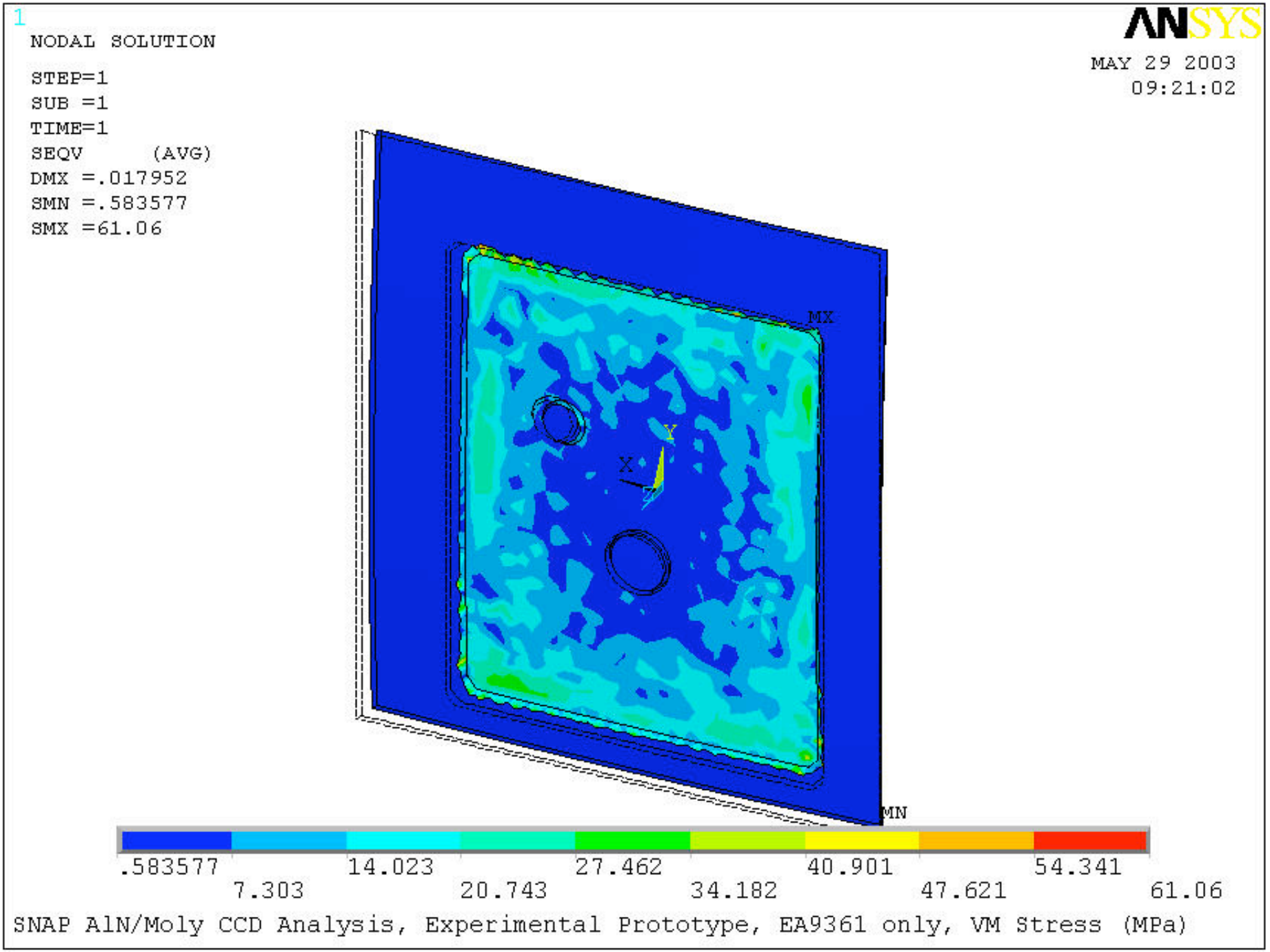
NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SEQV (AVG)
DMX =.017952
SMN =.583577
SMX =61.06
ANSYS
MAY 29 2003
09:20:32
MX
MN
Y
Z
X
.583577
7.303
14.023
20.743
27.462
34.182
40.901
47.621
54.341
61.06
SNAP AlN/Moly CCD Analysis, Experimental Prototype, EA9361 only, VM Stress (MPa)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NODAL SOLUTION
STEP=1
SUB =1
TIME=1
SEQV (AVG)
DMX =.017952
SMN =.583577
SMX =61.06
ANSYS
MAY 29 2003
09:21:02
MX
MN
Y
X
Z
.583577
7.303
14.023
20.743
27.462
34.182
40.901
47.621
54.341
61.06
SNAP AlN/Moly CCD Analysis, Experimental Prototype, EA9361 only, VM Stress (MPa)