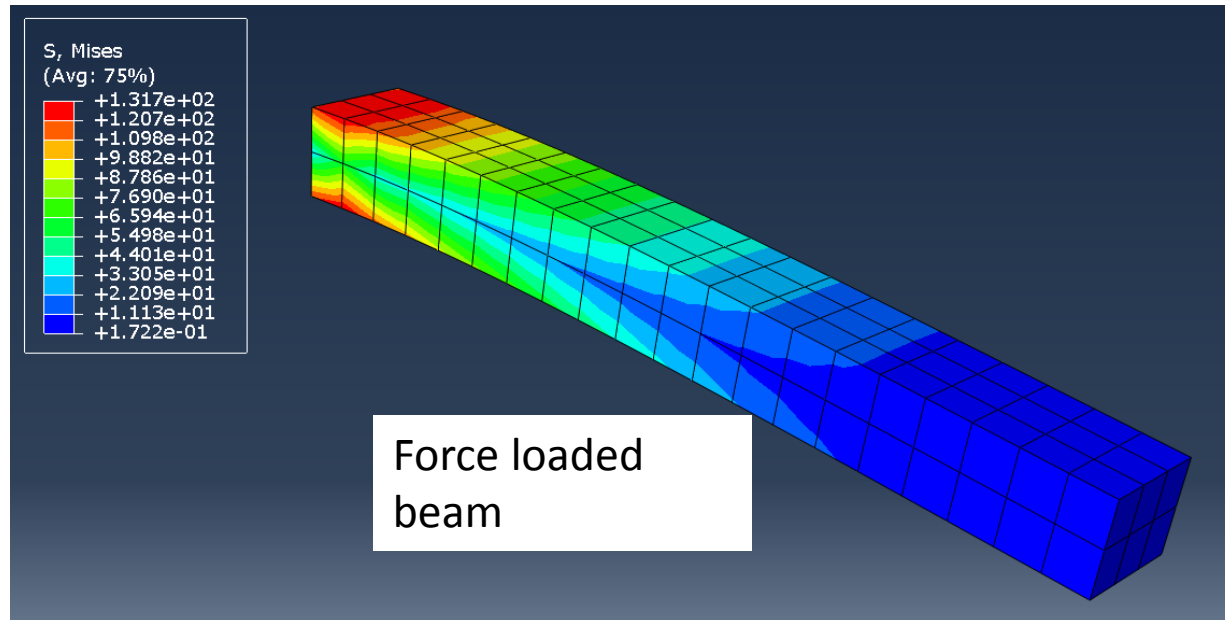
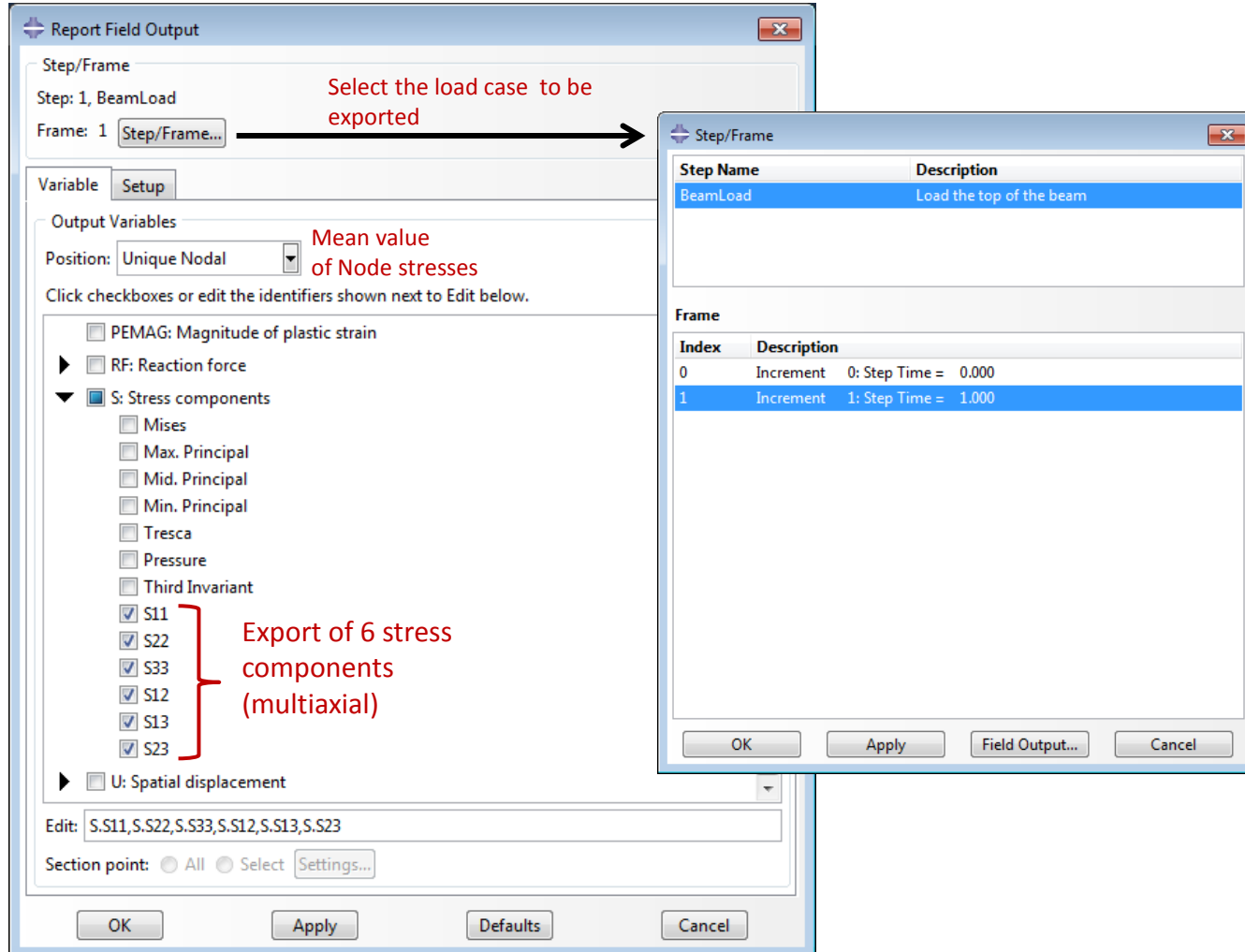


Description of Abaqus - winLIFE Interface

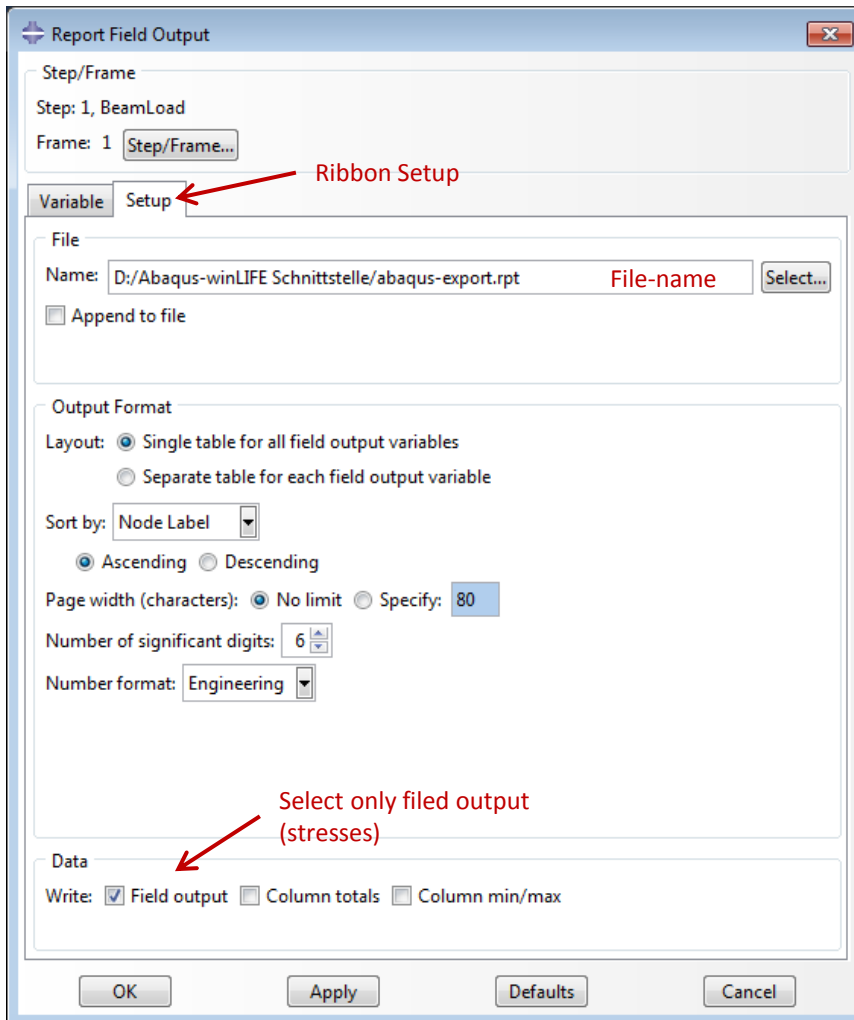


Stress Export in Abaqus

Select in Module Visualization **Report** → **Field Output**

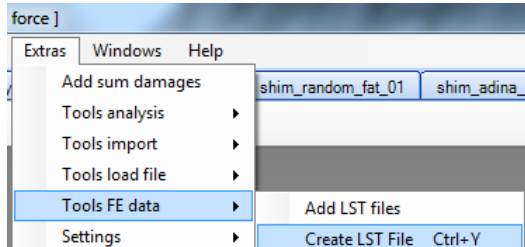


Stress Export in Abaqus

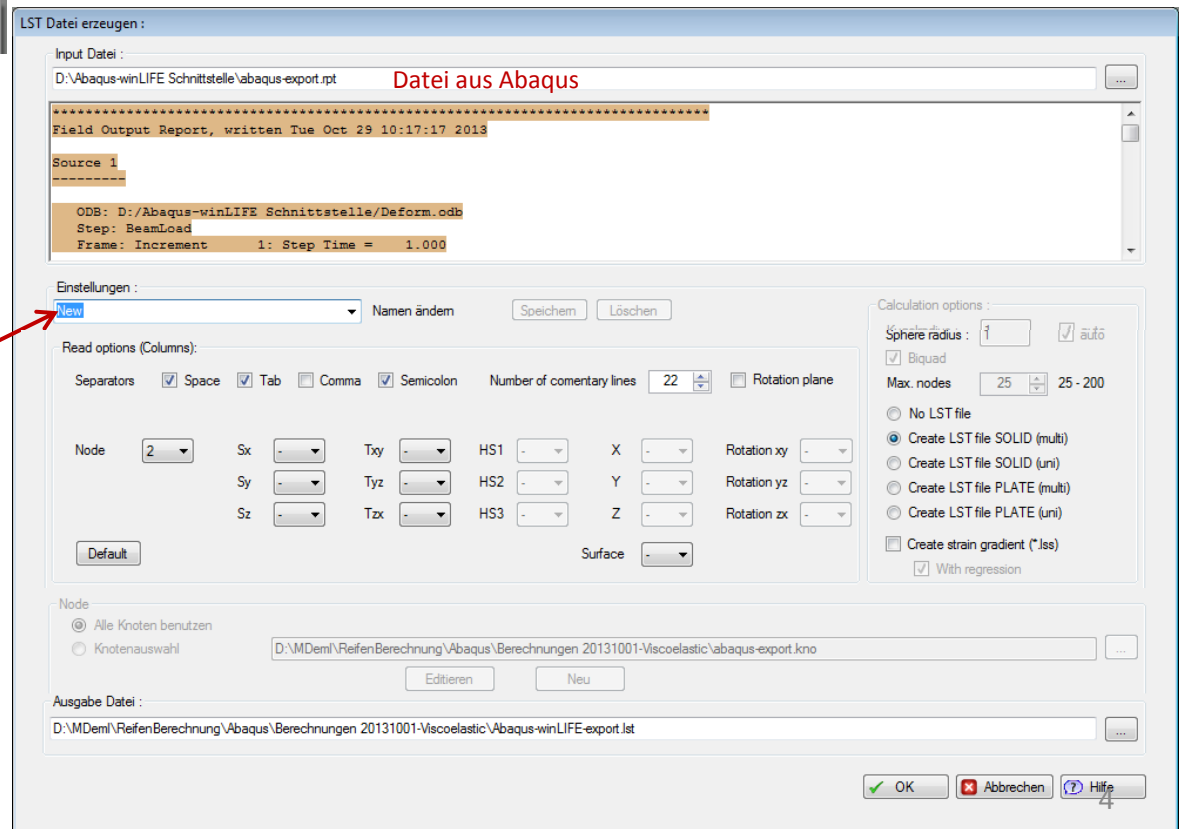


winLIFE – Create LST-file

Extras → tools FE data → Create LST file



Select the Option **New** and rename into e.g. **Abaqus** – see picture right



winLIFE – Creating LST-file

LST Datei erzeugen :

Input Datei :
D:\Abaqus-winLIFE Schnittstelle\abaqus-export.rpt


Computation algorithm: EXTRAPOLATE_COMPUTE_AVERAGE
Averaged at nodes
Averaging regions: ODB_REGIONS

Node Label	S.S11 @Loc 1	S.S22 @Loc 1	S.S33 @Loc 1	S.S12 @Loc 1	S.S13 @Loc 1	S.S23 @Loc 1
1	141.504E-03	-413.305E-03	-26.5544E-03	-81.2812E-03	22.1350E-03	17.4662E-03
2	0.	-250.000E-03	0.	-106.581E-03	-465.661E-12	19.2828E-03
3	141.504E-03	0.6045E-03	0.65544E-03	0.12812E-03	0.1350E-03	17.4662E-03

Einstellungen :
Abaqus [Speichern] [Löschen]

Leseoptionen (Spalten):
Trennzeichen Leer Tab Komma Semikolon
Number of comentry lines: 22 Rotation plane

Knotennummer: 1
Sx: 2 Txy: 5 HS1: - X: - Rotation xy: -
Sy: 3 Tyz: 7 HS2: - Y: - Rotation yz: -
Sz: 4 Tzx: 6 HS3: - Z: - Rotation zx: -
Surface: -

Calculation options :
Sphere radius: 1 auto
 Biquad
Max. nodes: 25 25-200
 No LST file
 Create LST file SOLID (multi) 
 Create LST file SOLID (uni)
 Create LST file PLATE (multi)
 Create LST file PLATE (uni)
 Create strain gradient (*.Jss)
 With regression

Node:
 Alle Knoten benutzen
 Knotenauswahl
D:\Abaqus-winLIFE Schnittstelle\abaqus-export.kno [Editieren] [Neu]

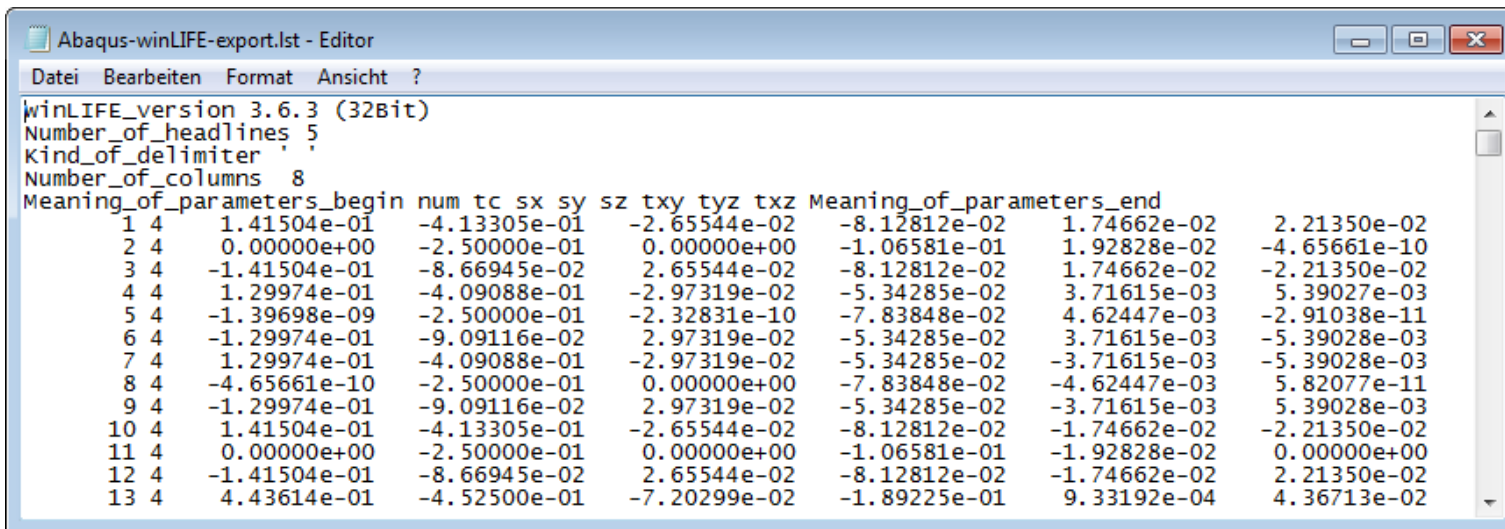
Ausgabe Datei :
D:\Abaqus-winLIFE Schnittstelle\Abaqus-winLIFE-export.lst **LST-file for winLIFE**

[OK] [Abbrechen] [Hilfe]

In Abaqus solid elements exist and the total stress tensor is exported

LST Datei

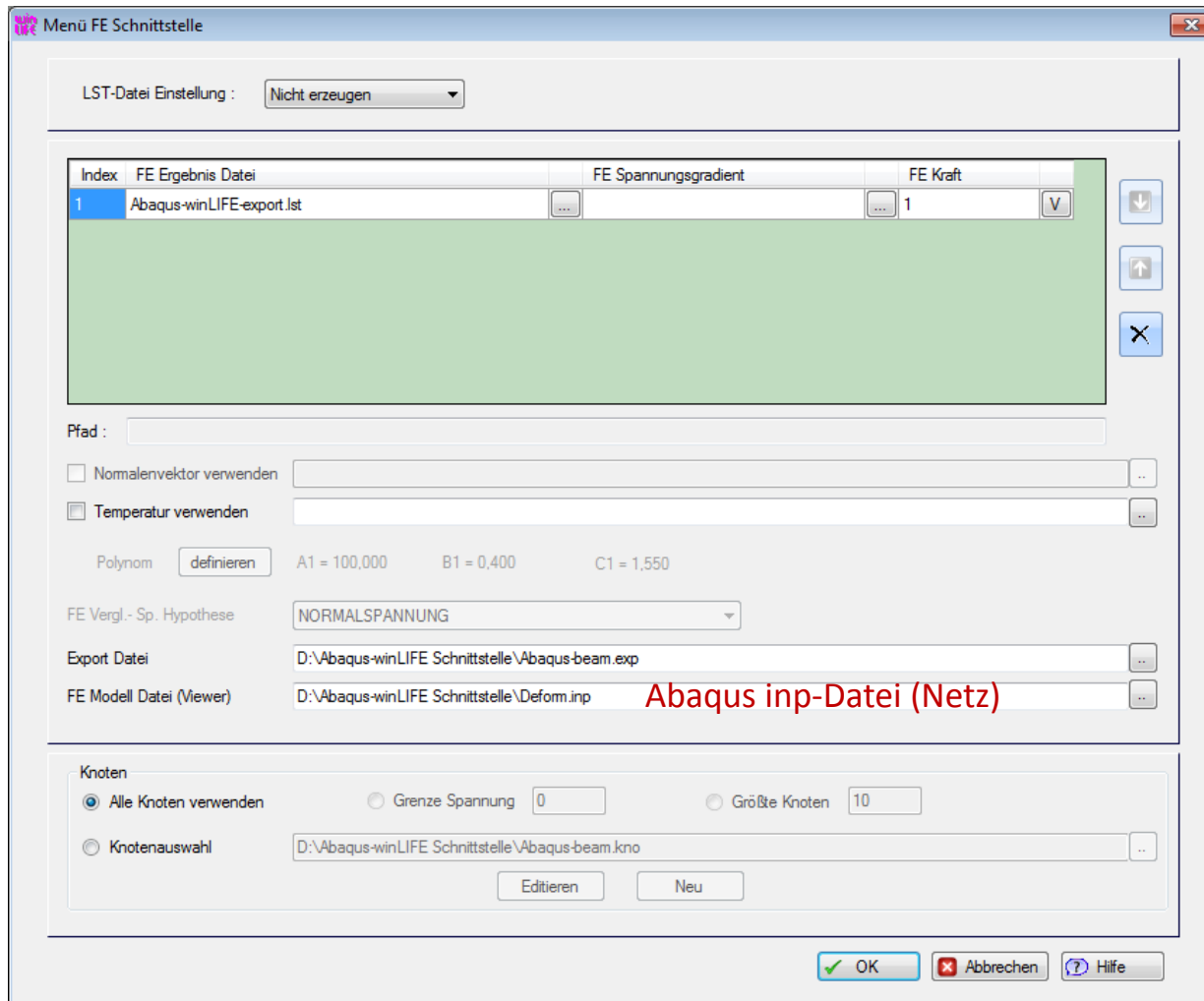
Lastdatei für die folgende winLIFE Rechnung



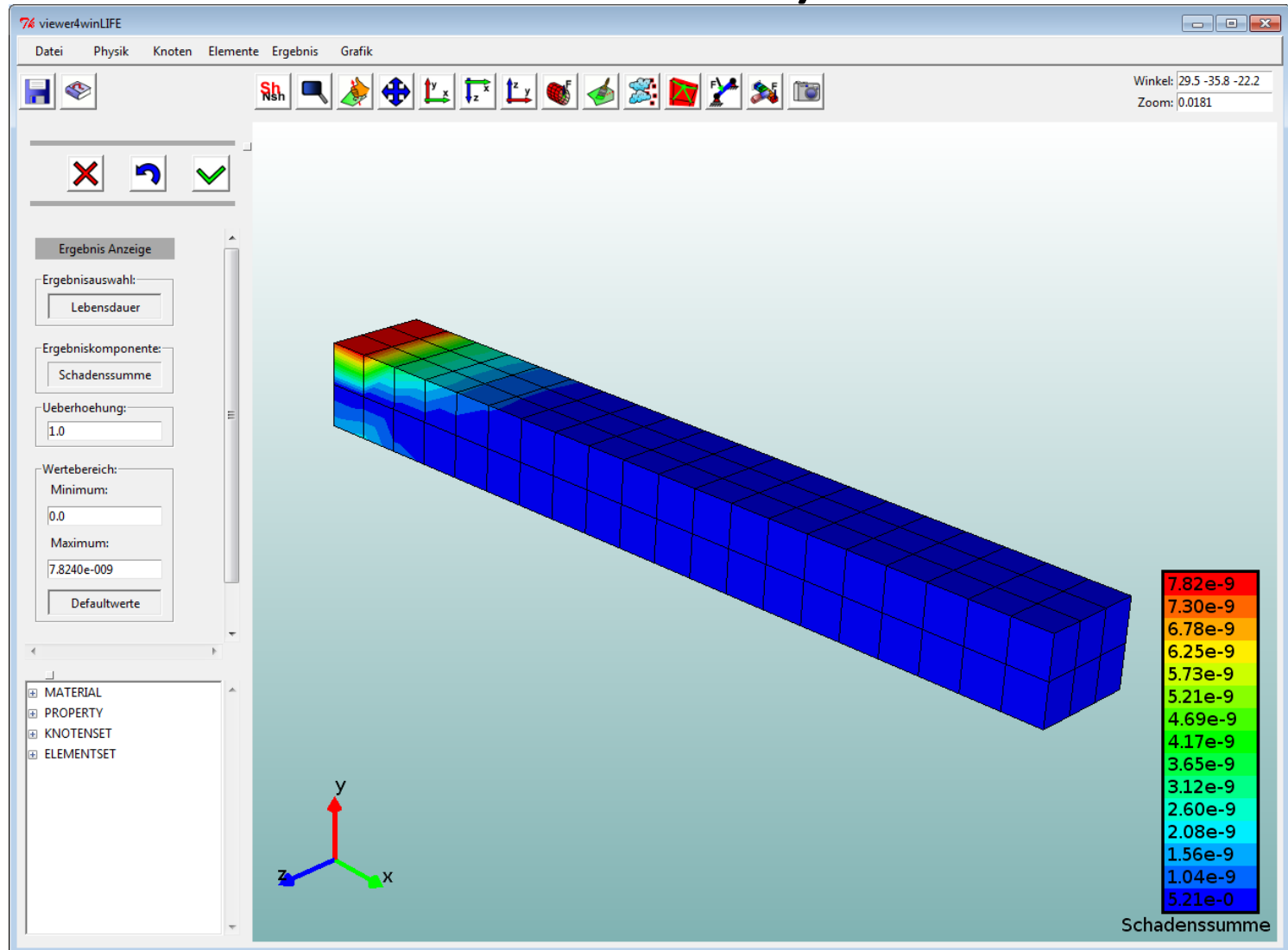
```
Abaqus-winLIFE-export.lst - Editor
Datei Bearbeiten Format Ansicht ?
winLIFE_version 3.6.3 (32Bit)
Number_of_headlines 5
Kind_of_delimiter ' '
Number_of_columns 8
Meaning_of_parameters_begin num tc sx sy sz txy tyz txz Meaning_of_parameters_end
1 4 1.41504e-01 -4.13305e-01 -2.65544e-02 -8.12812e-02 1.74662e-02 2.21350e-02
2 4 0.00000e+00 -2.50000e-01 0.00000e+00 -1.06581e-01 1.92828e-02 -4.65661e-10
3 4 -1.41504e-01 -8.66945e-02 2.65544e-02 -8.12812e-02 1.74662e-02 -2.21350e-02
4 4 1.29974e-01 -4.09088e-01 -2.97319e-02 -5.34285e-02 3.71615e-03 5.39027e-03
5 4 -1.39698e-09 -2.50000e-01 -2.32831e-10 -7.83848e-02 4.62447e-03 -2.91038e-11
6 4 -1.29974e-01 -9.09116e-02 2.97319e-02 -5.34285e-02 3.71615e-03 -5.39028e-03
7 4 1.29974e-01 -4.09088e-01 -2.97319e-02 -5.34285e-02 -3.71615e-03 -5.39028e-03
8 4 -4.65661e-10 -2.50000e-01 0.00000e+00 -7.83848e-02 -4.62447e-03 5.82077e-11
9 4 -1.29974e-01 -9.09116e-02 2.97319e-02 -5.34285e-02 -3.71615e-03 5.39028e-03
10 4 1.41504e-01 -4.13305e-01 -2.65544e-02 -8.12812e-02 -1.74662e-02 -2.21350e-02
11 4 0.00000e+00 -2.50000e-01 0.00000e+00 -1.06581e-01 -1.92828e-02 0.00000e+00
12 4 -1.41504e-01 -8.66945e-02 2.65544e-02 -8.12812e-02 -1.74662e-02 2.21350e-02
13 4 4.43614e-01 -4.52500e-01 -7.20299e-02 -1.89225e-01 9.33192e-04 4.36713e-02
```

Der Export von einzelnen Knoten oder Knotengruppen wird im Anhang gezeigt

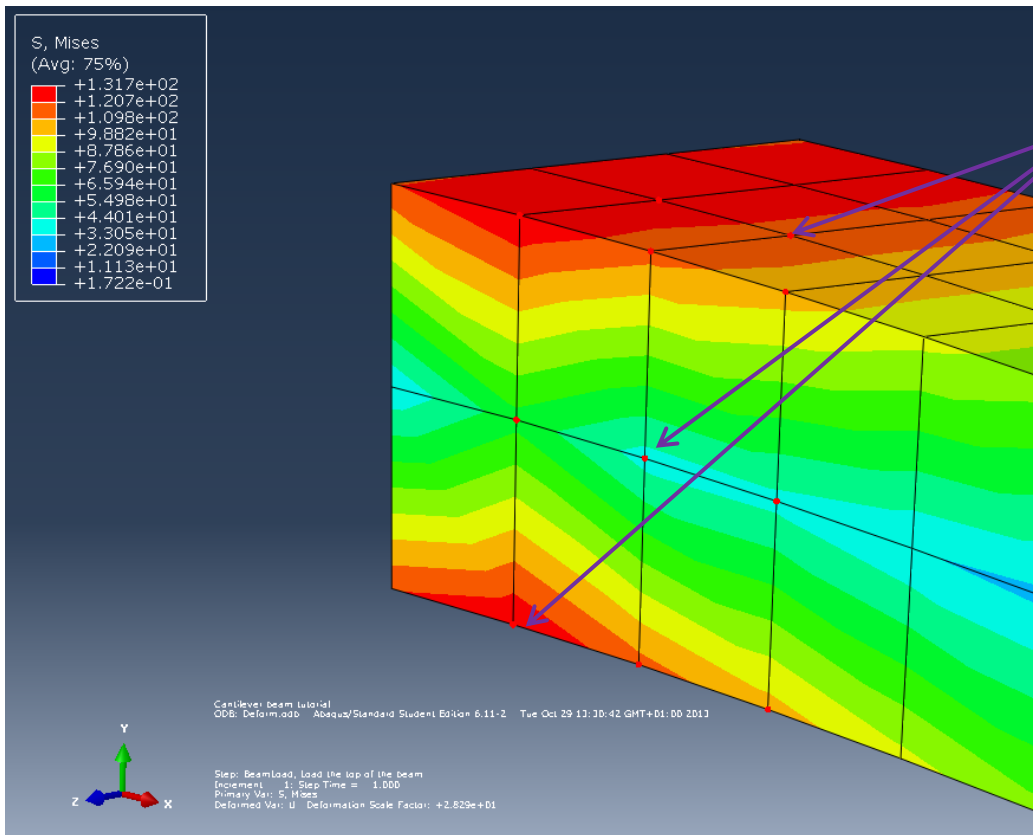
Using the viewer4winLIFE (Creating a link)



Using the viewer4winLIFE (Showing the results)

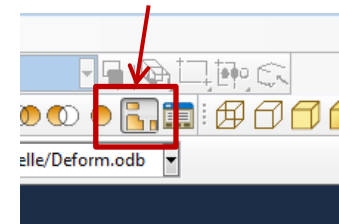


Details to the stress export of node groups



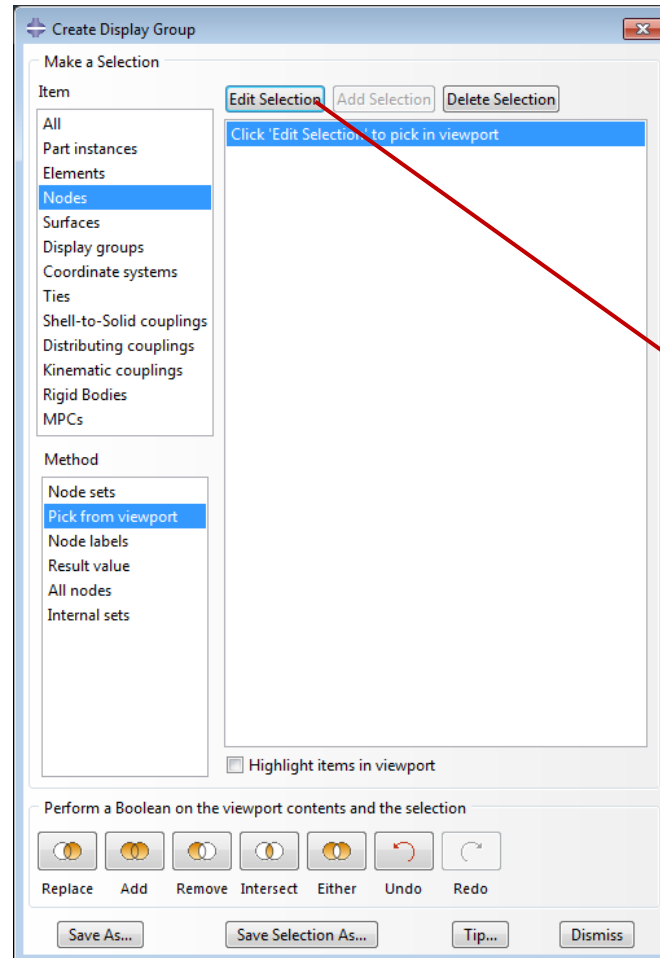
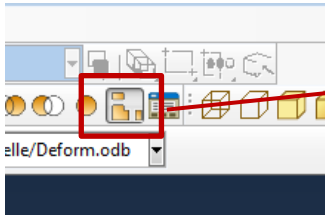
Export of single nodes:

Definition of node groups

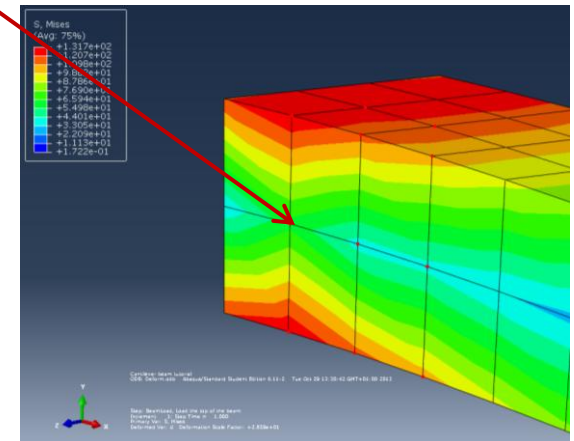


Export Spannungen für Knotengruppen

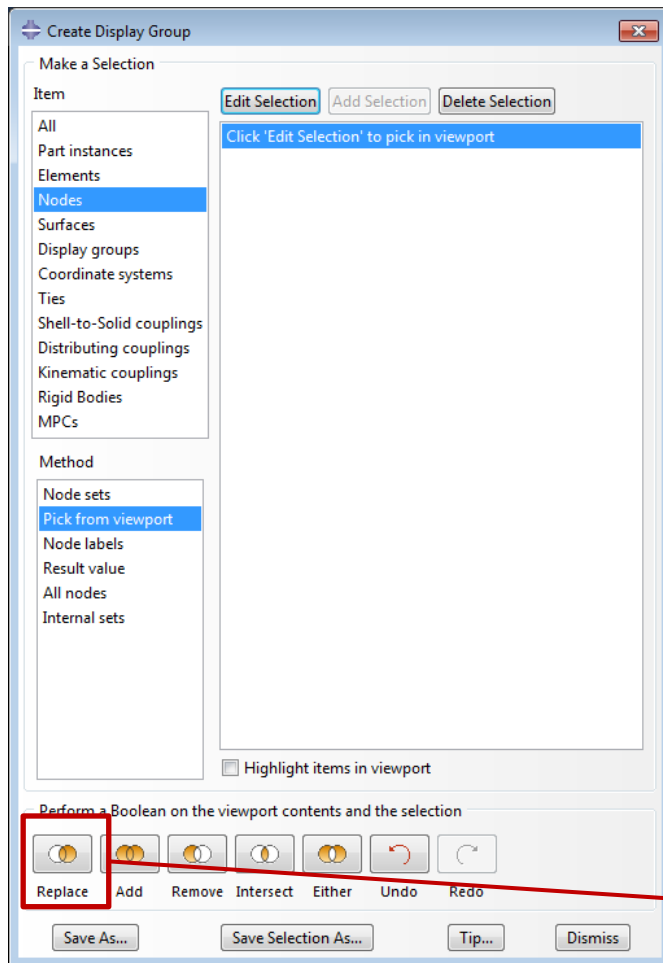
Befehl: Create display group



Wahl der zu exportierenden Knoten



Export of stresses for node groups



From now you continue the export shown in the picture page 2:

Select in Modul Visualization:
Report → Field Output