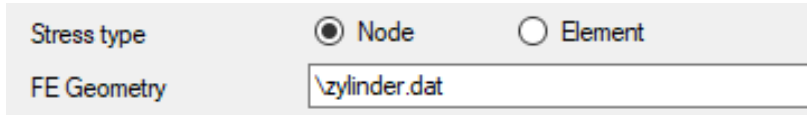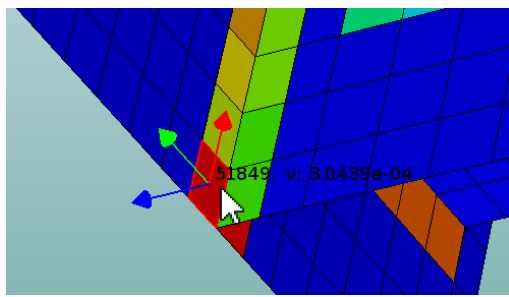# Overview of new Features in winLIFE 2025

- **Viewer4winLIFE**

  – Optimised reading of FE data into the Viewer.

    • The geometry file is displayed while the FE results are still being loaded.

  – Life calculations with element stresses are supported.

  – Temporary NUFUSS files (*.bof, *.nfs) are given the project name. This makes it easier to copy projects and projects can contain different node sets or attributes.

  – Temporary Nufuss files (*.bof, *.nfs) can be deleted via a menu item.

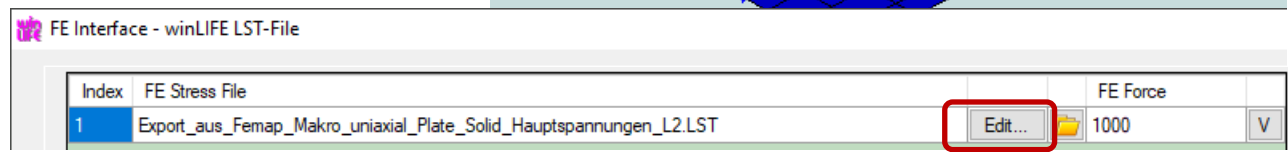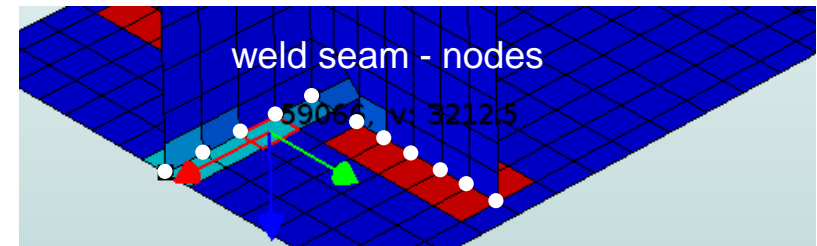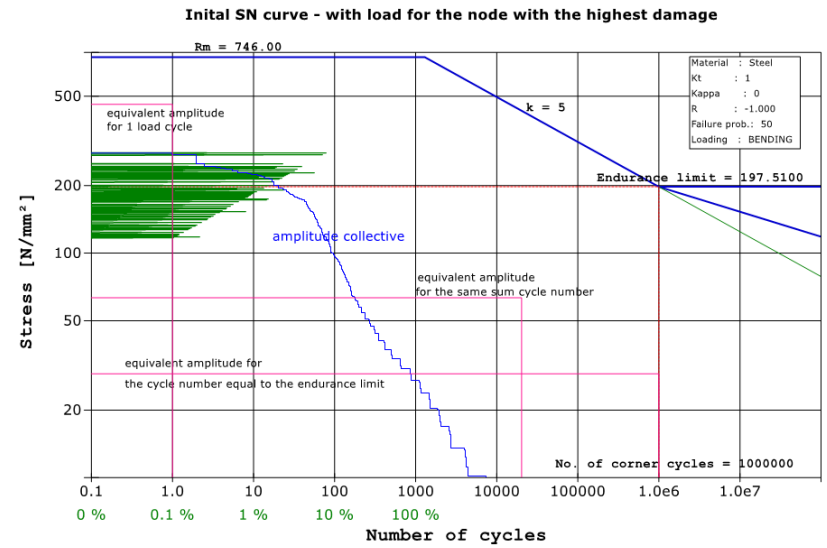 – Visualisation of the weld seam coordinates (triad) also with the Hot-Spot method.

Overview of new Features in winLIFE 2025

- **User Interface**

    - S-N curve with load: Representation of the collectives of the damage-equivalent amplitudes

    - With the weld seam Hot-Spot process, a weld seam can now also be created manually by selecting a node.

    - Possibility of LST file editing directly in winLIFE.

Inital SN curve - with load for the node with the highest damage

Rm = 746.00

equivalent amplitude
for 1 load cycle

k = 5

Material : Steel
Kt   : 1
Kappa   : 0
R   : -1.000
Failure prob.: 50
Loading : BENDING

Endurance limit = 197.5100

amplitude collective

equivalent amplitude
for the same sum cycle number

equivalent amplitude for
the cycle number equal to the endurance limit

No. of corner cycles = 1000000

Stress [N/mm²]

Number of cycles

weld seam - nodes
59063, v: 32125

FE Interface - winLIFE LST-File

Index	FE Stress File			FE Force	
1	Export_aus_Femap_Makro_uniaxial_Plate_Solid_Hauptspannungen_L2.LST		Edit...	1000	V

Overview of new Features in winLIFE 2025

- **Solver**

  - Derivation of the LST file names from the project name. This prevents the LST file from being overwritten by several projects with the same op2 file.

  - Optional activation of extrapolation and superposition for batch calculations / multiple calculations.

- **FE Interface**

  - Consideration of a special ADINA op2 format.

- **Others**

  - The unwanted moving of projects in the tabs (sequence) has been fixed.

  - Examples revised.