

# Analiza static neliniara

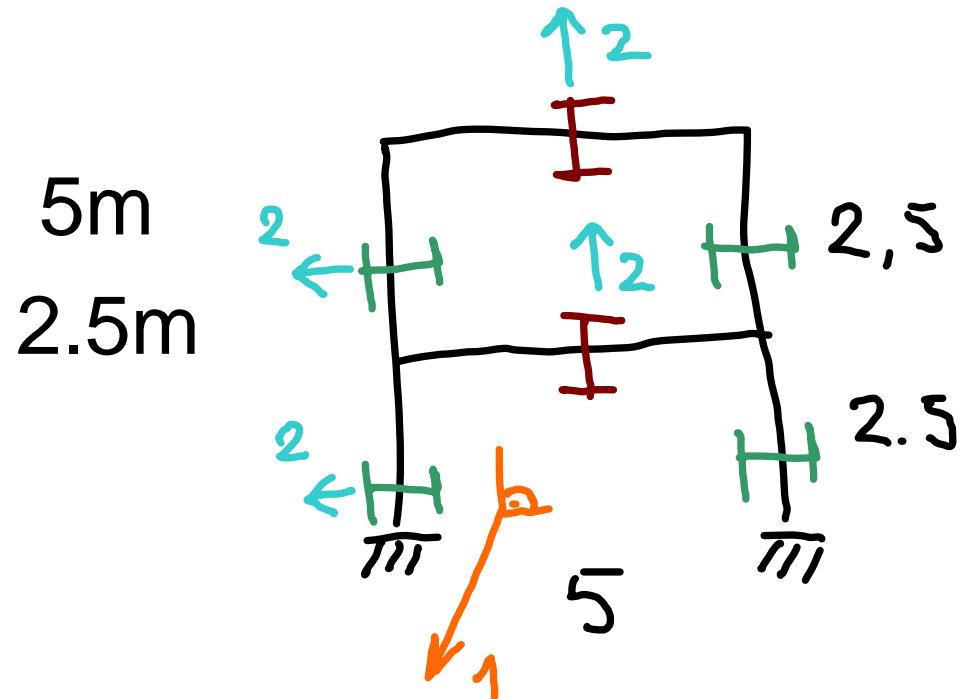
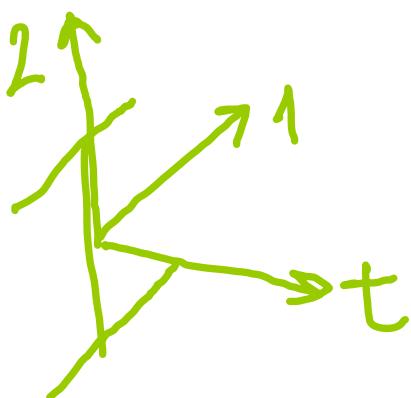
Extragerea de rezultate

- Curba deplasare la varf – forta la baza

- Geometria
  - O deschidere
  - Doua nivele

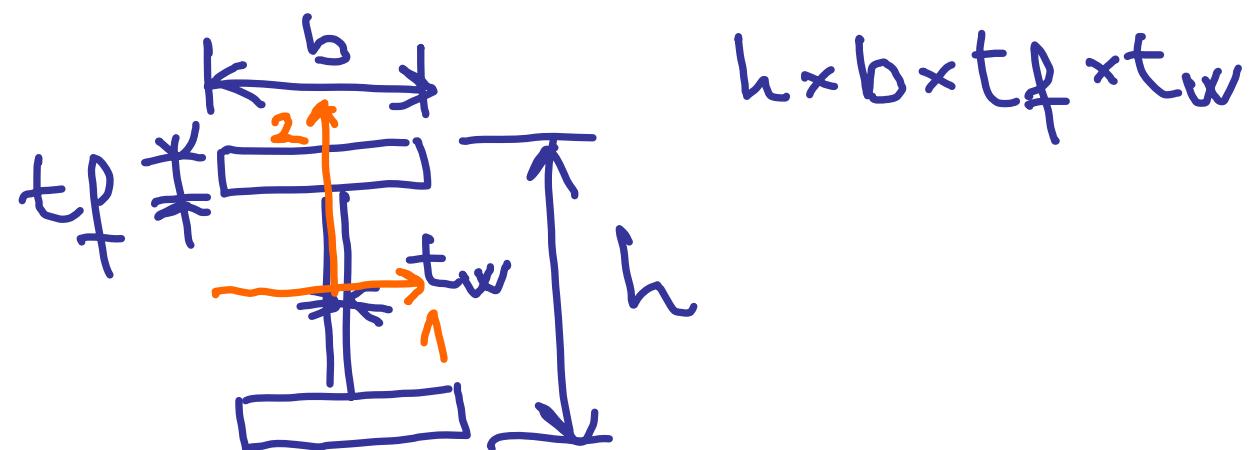

 – Grinda  

 – Stalp

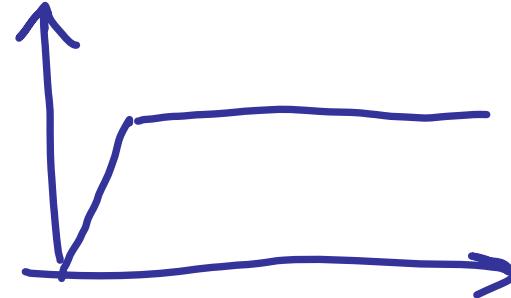


$$360 \times 180 \times 12 \times 6$$

$$450 \times 200 \times 16 \times 8$$



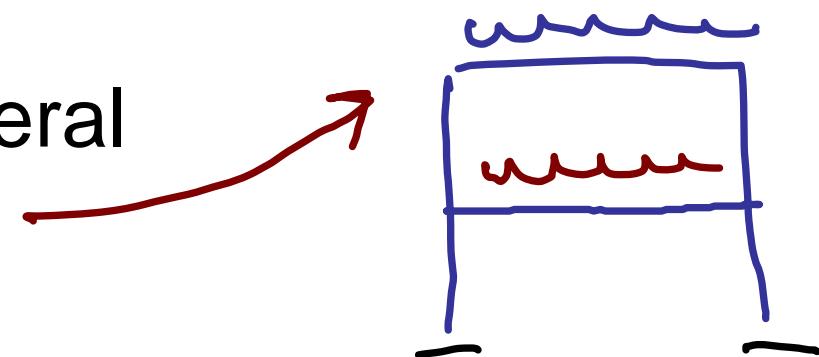
- Material neliniar S235



- Pas de analiza

- Vertical – Static general

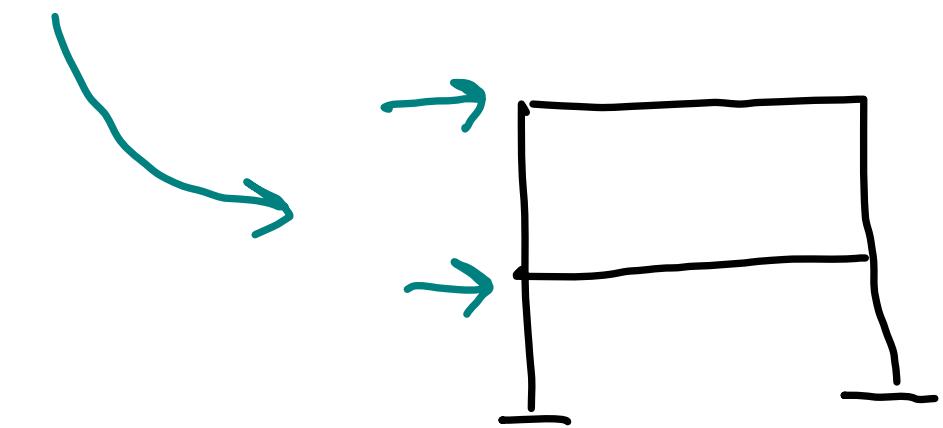
- Line load – 25 N/mm

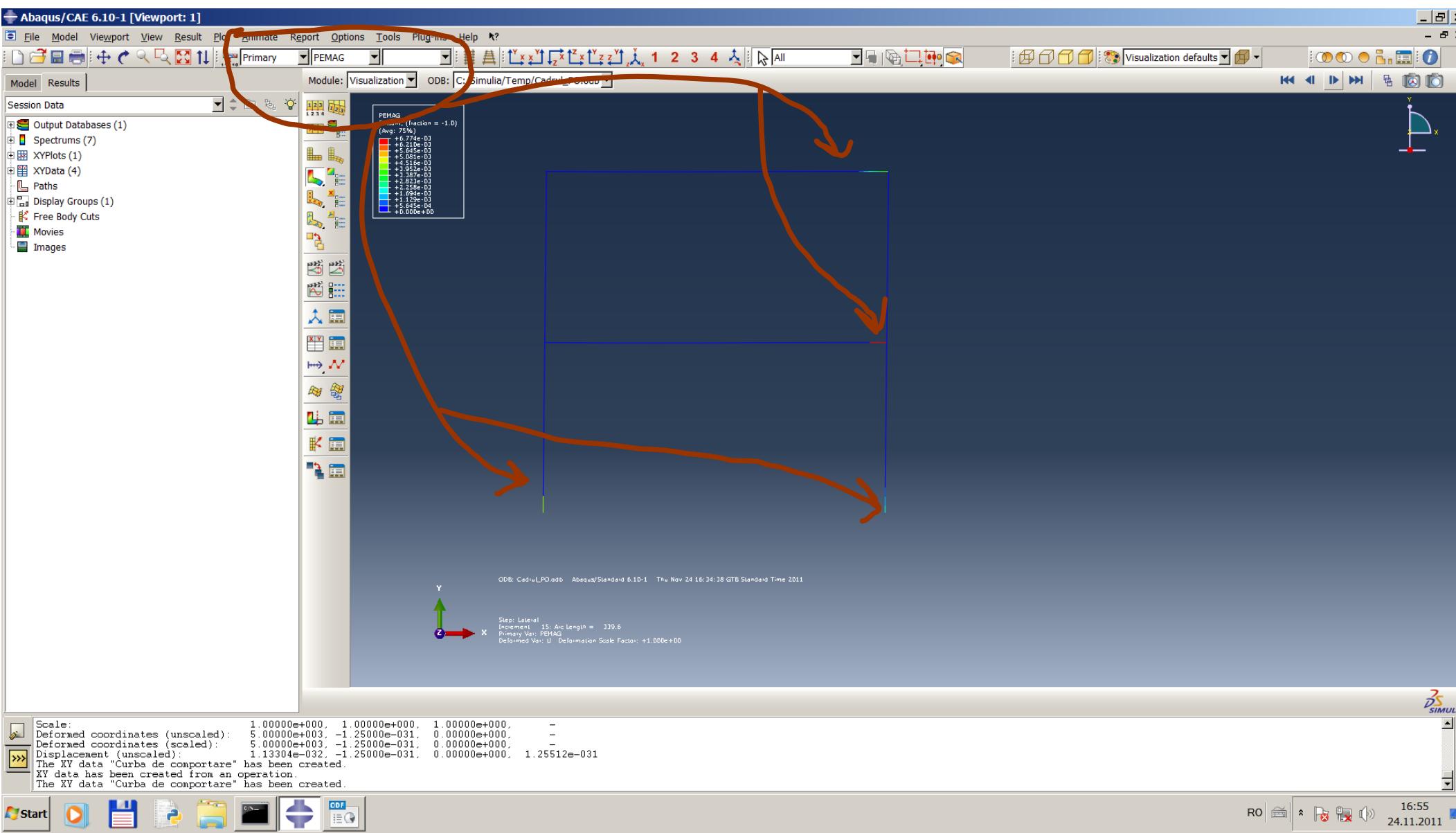


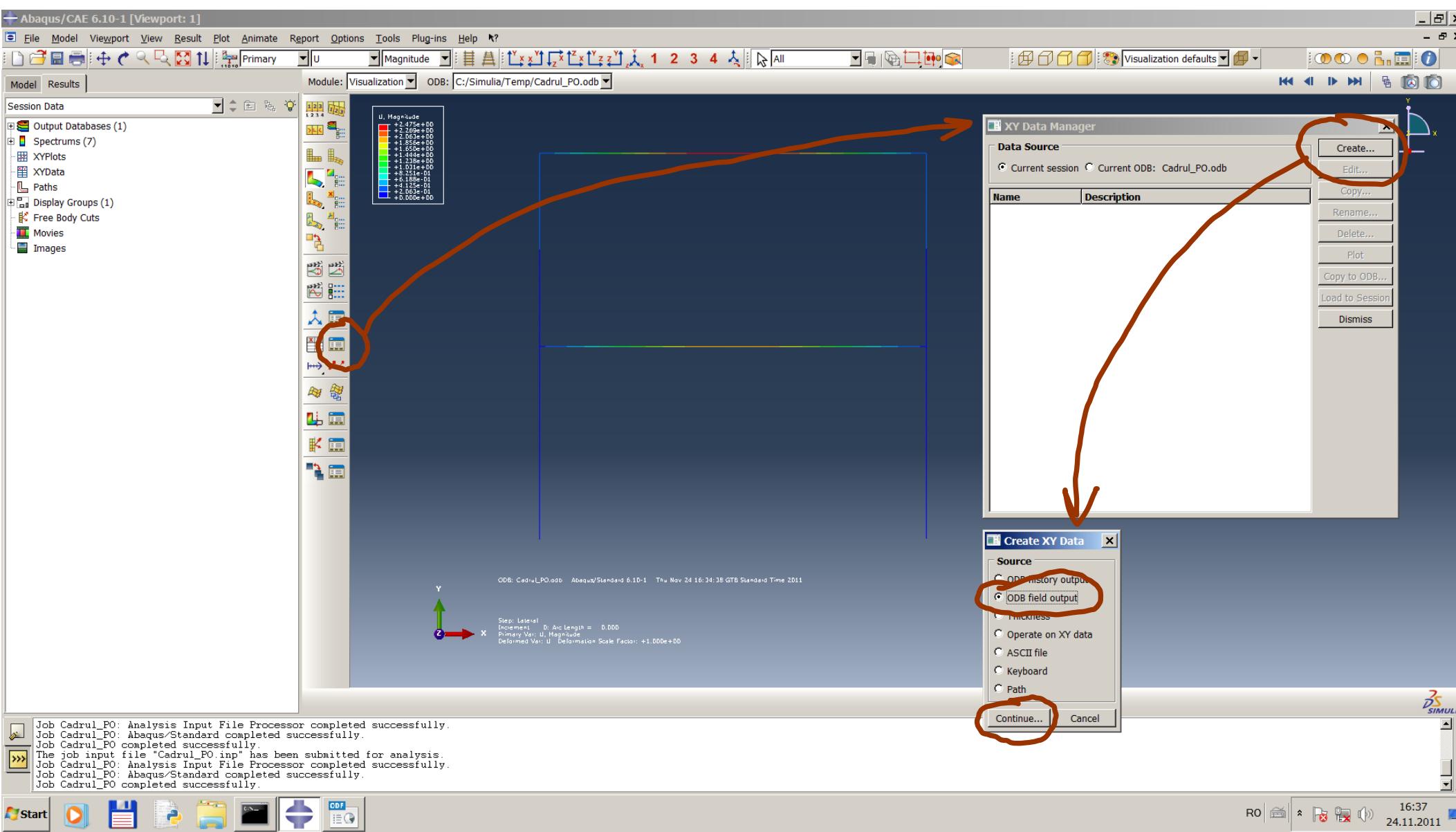
- Lateral – Static Riks

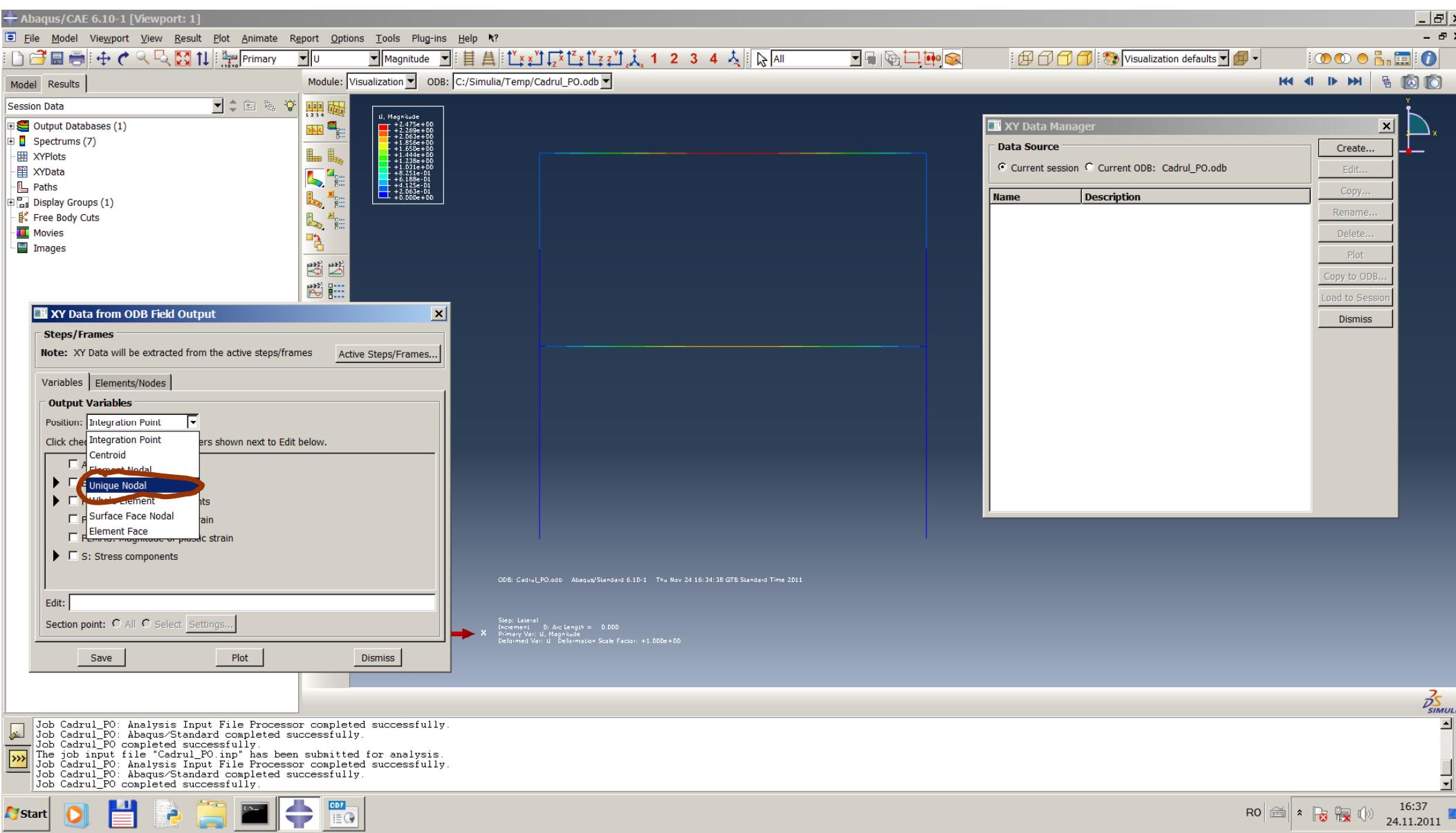
- Concentrated force – 1000 N

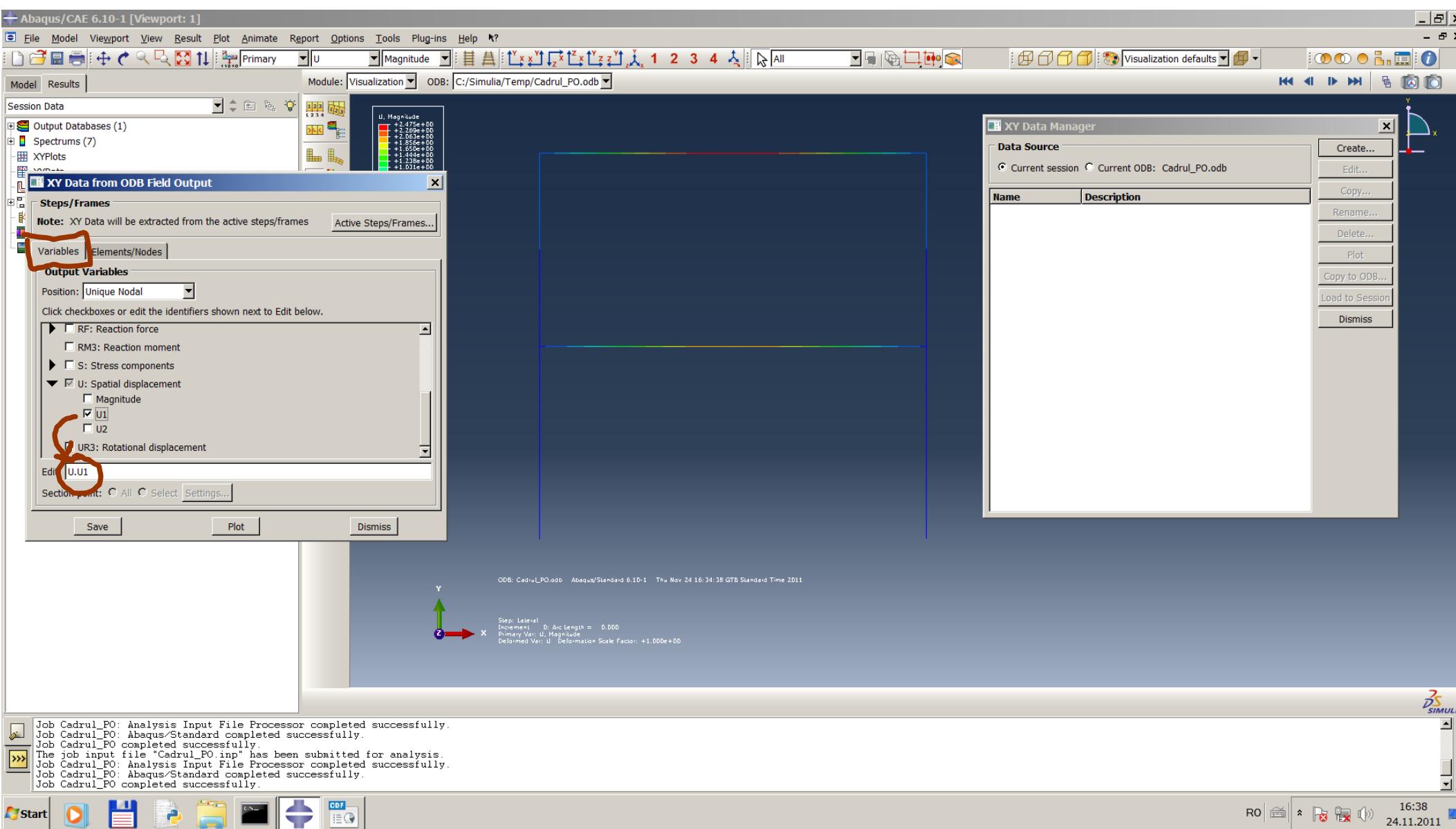
- NIgeom ON

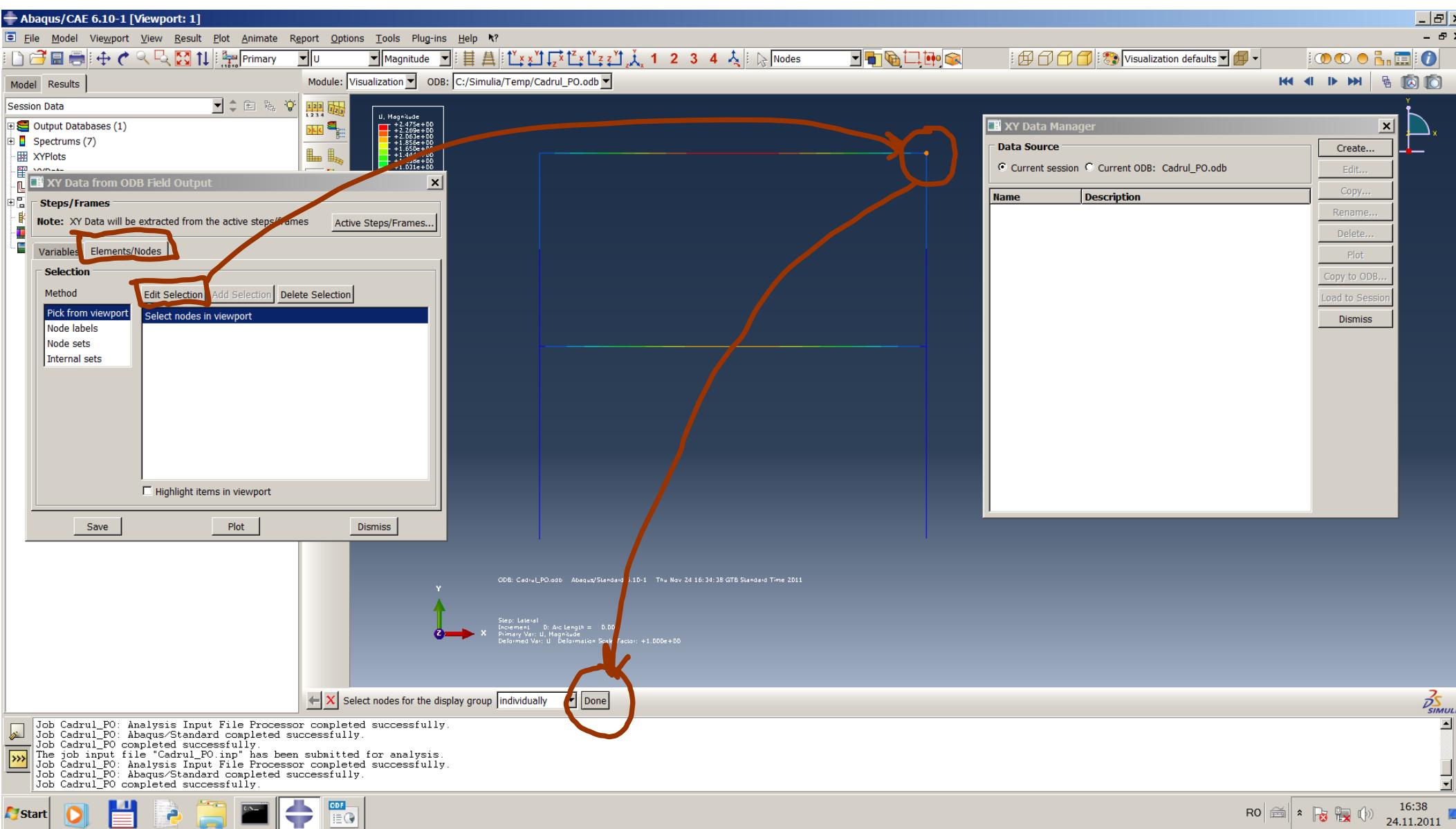


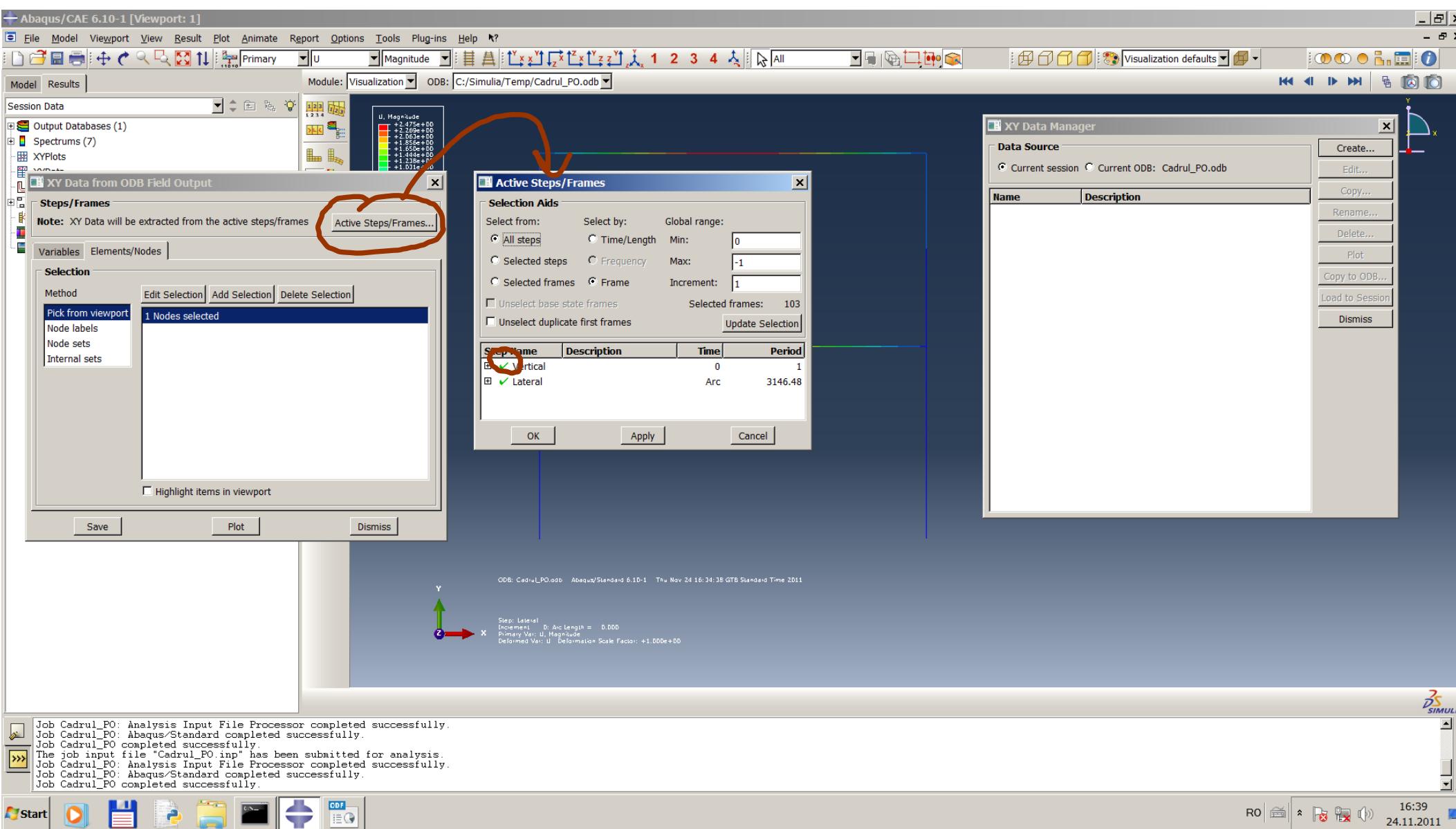


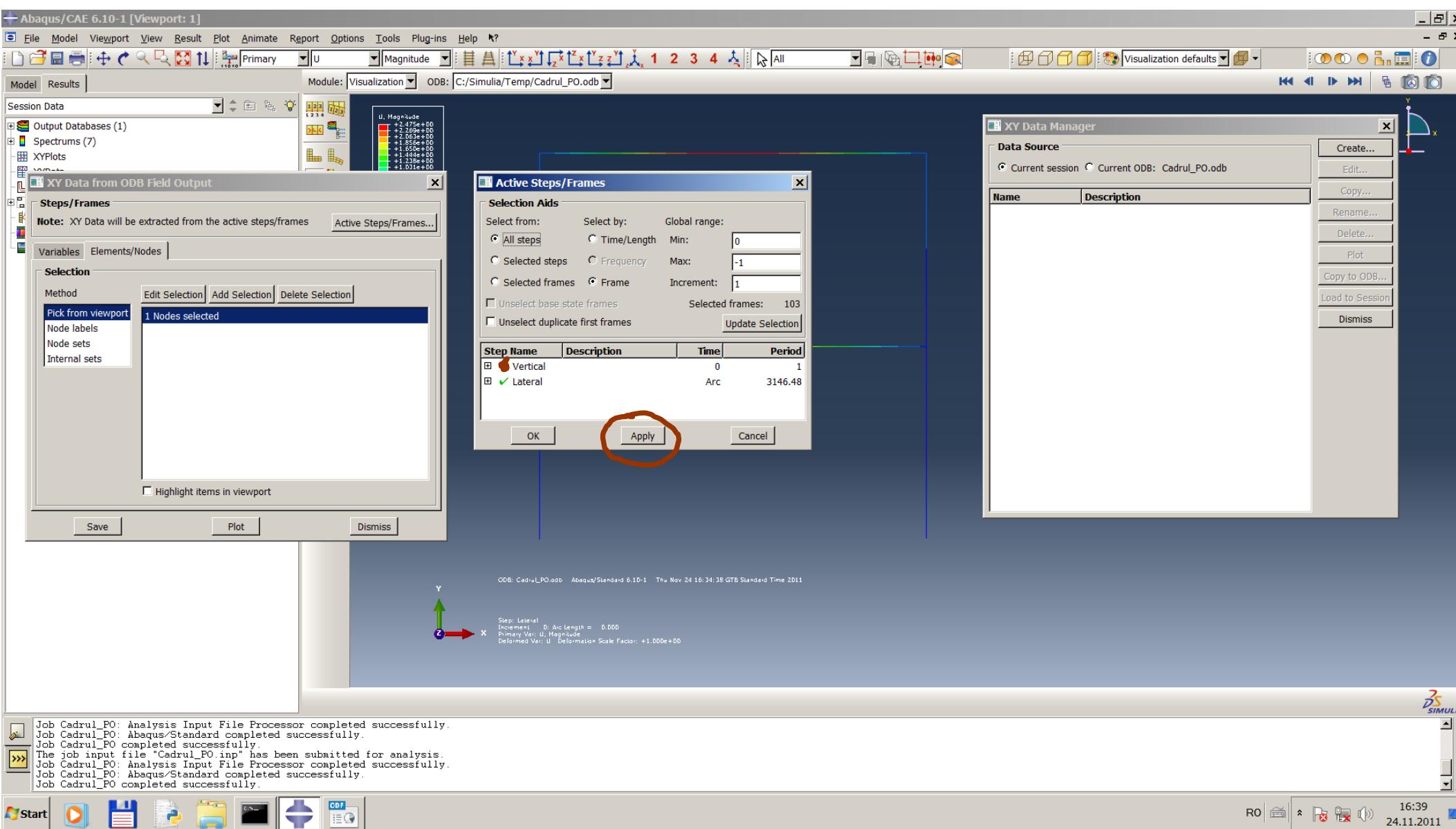


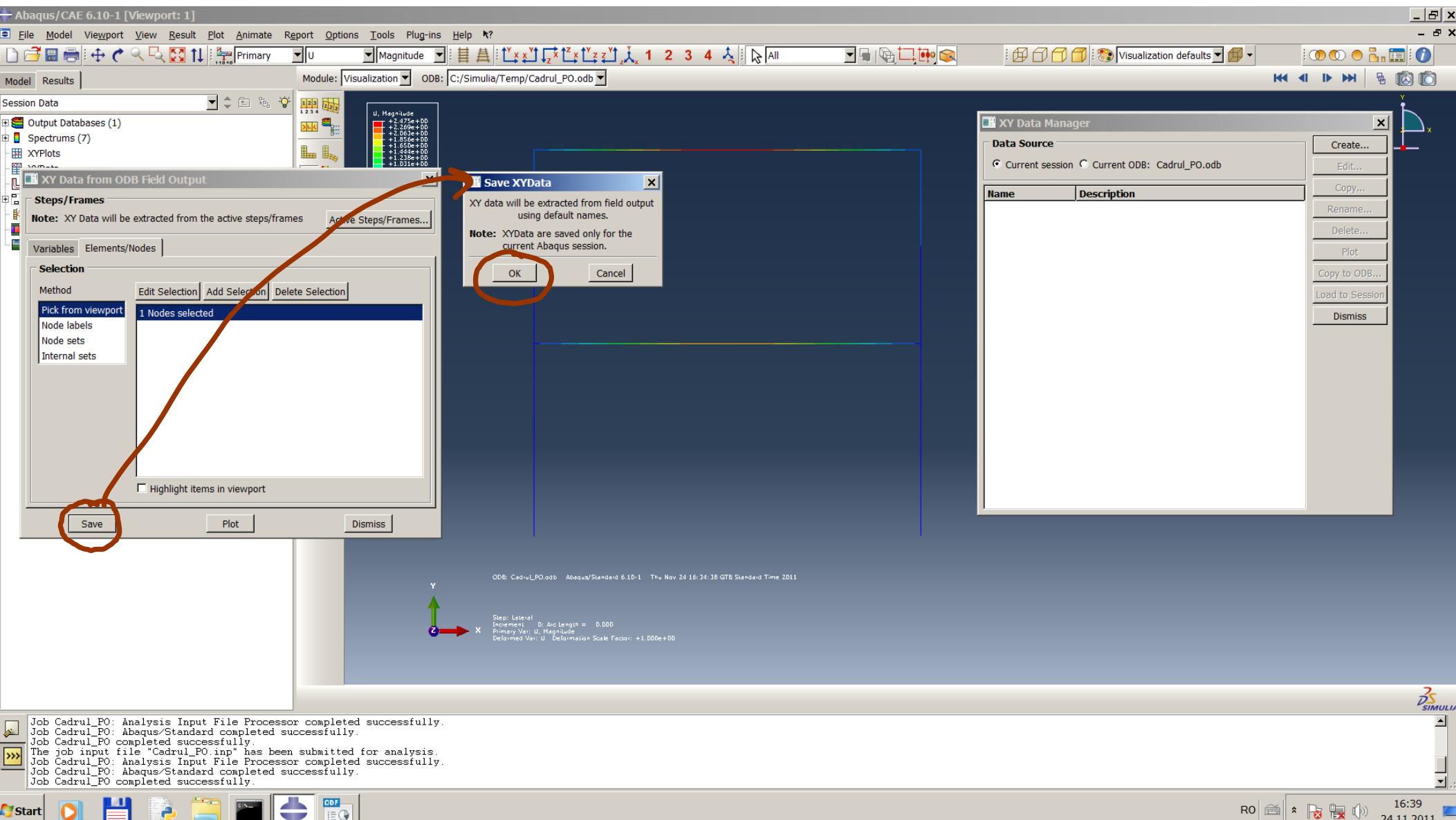


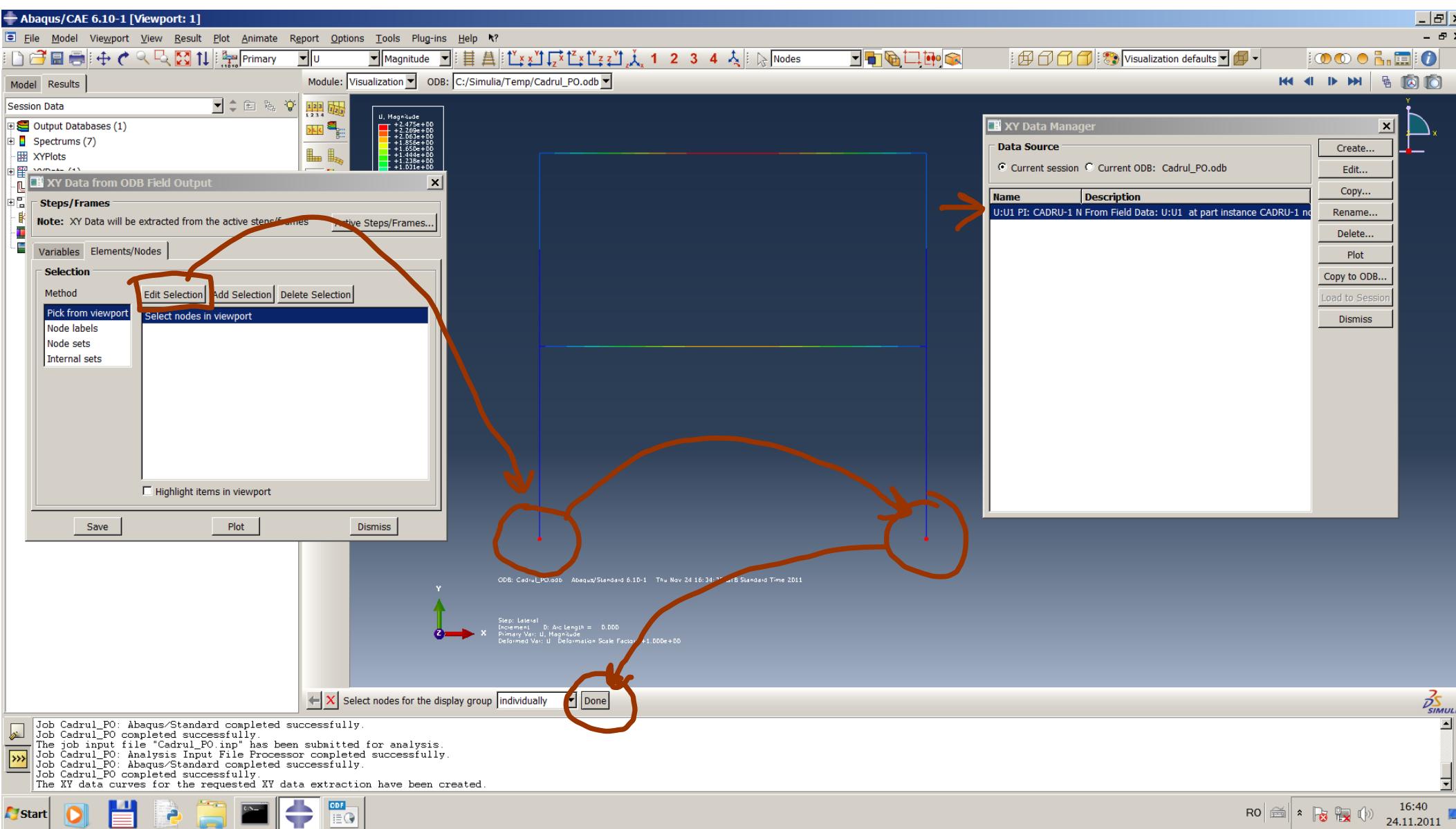


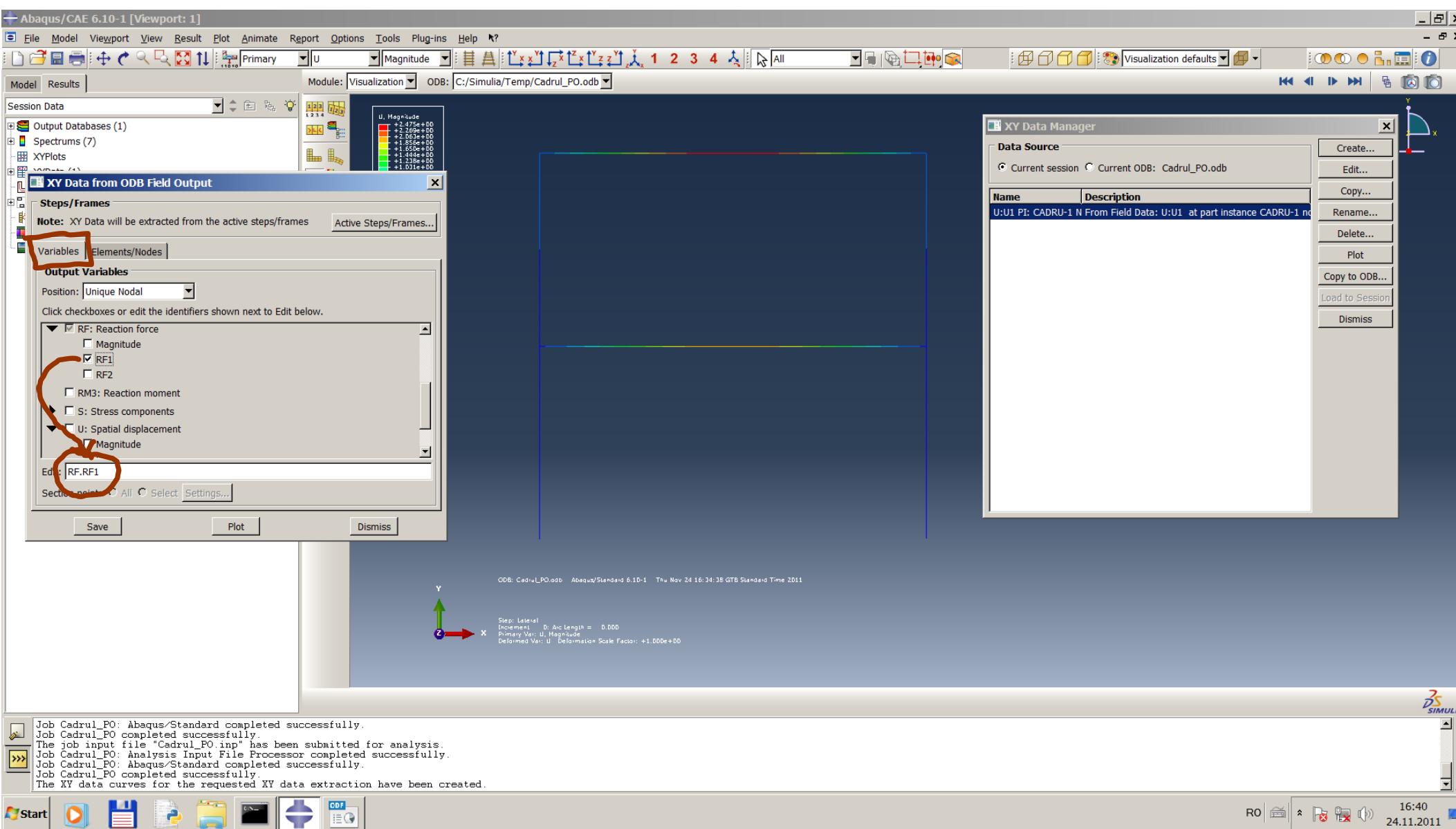


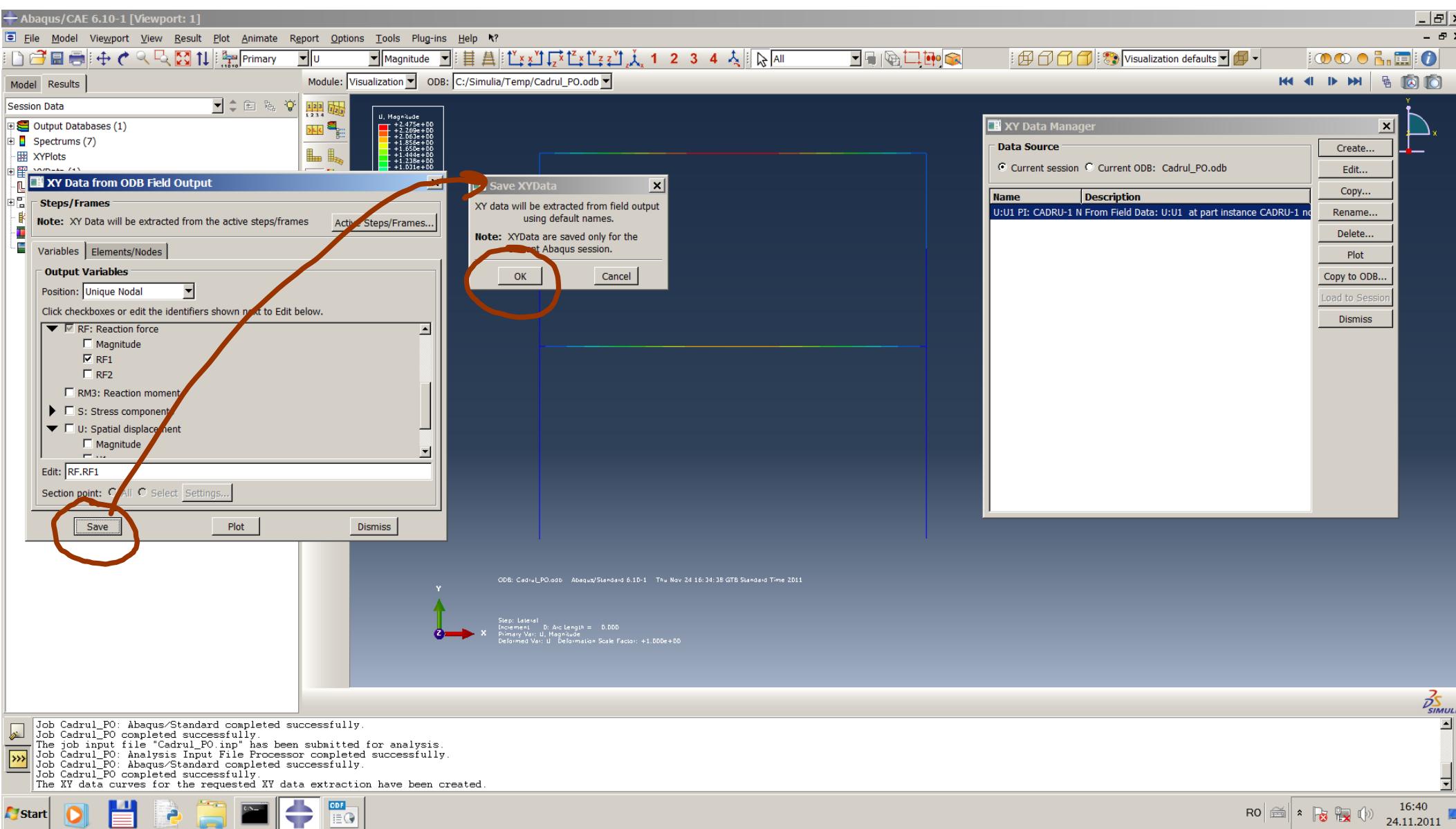


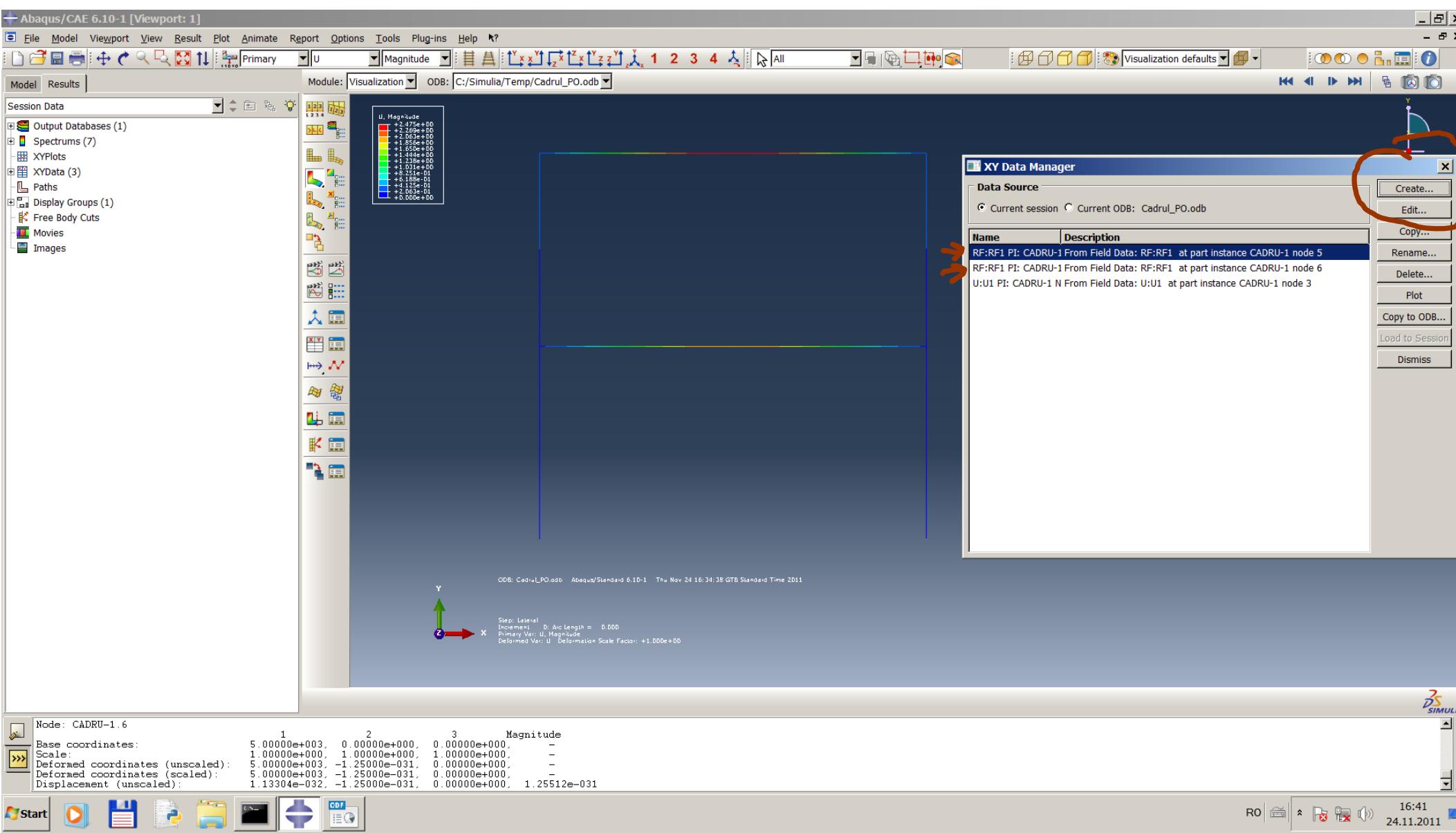


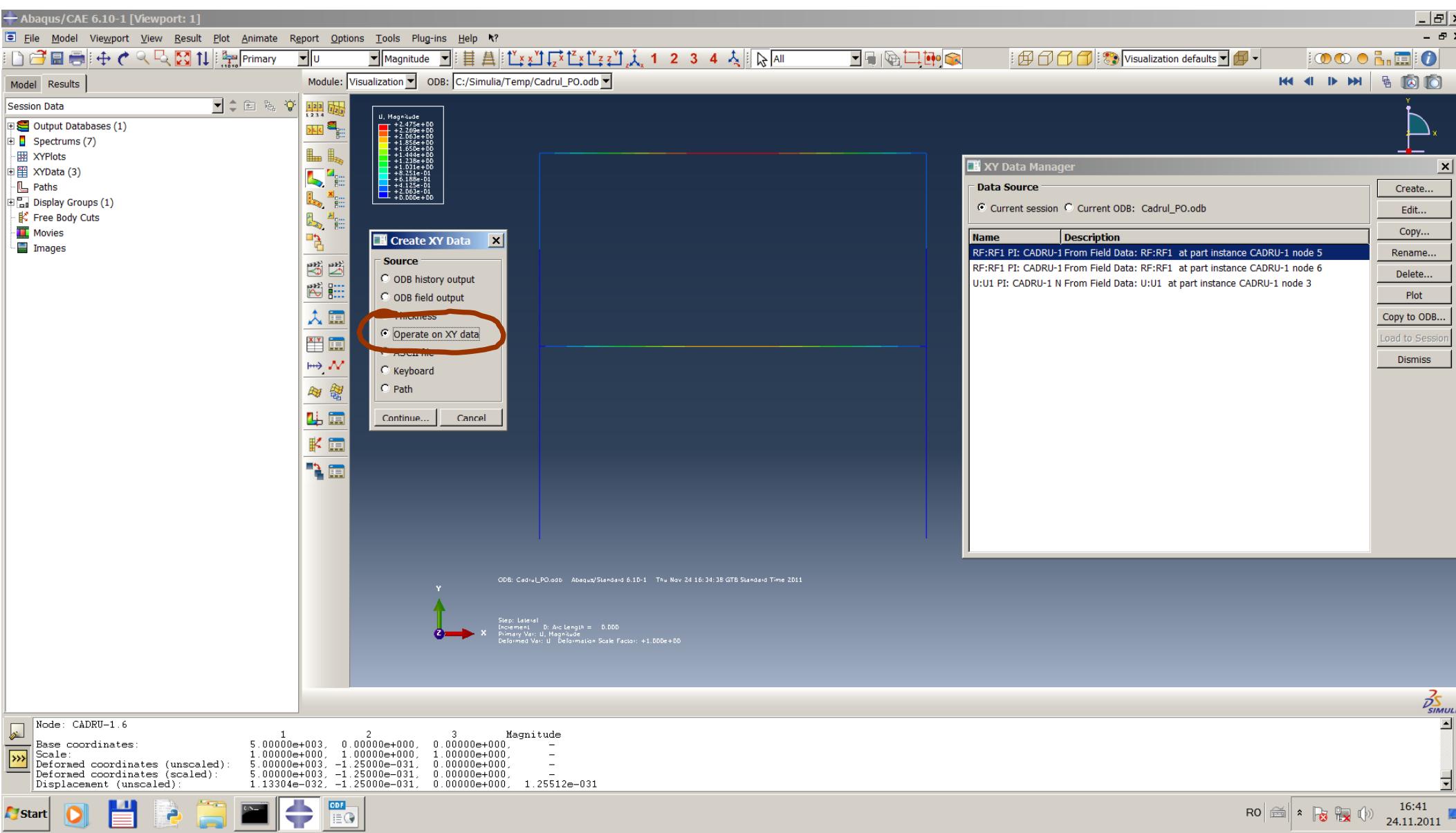


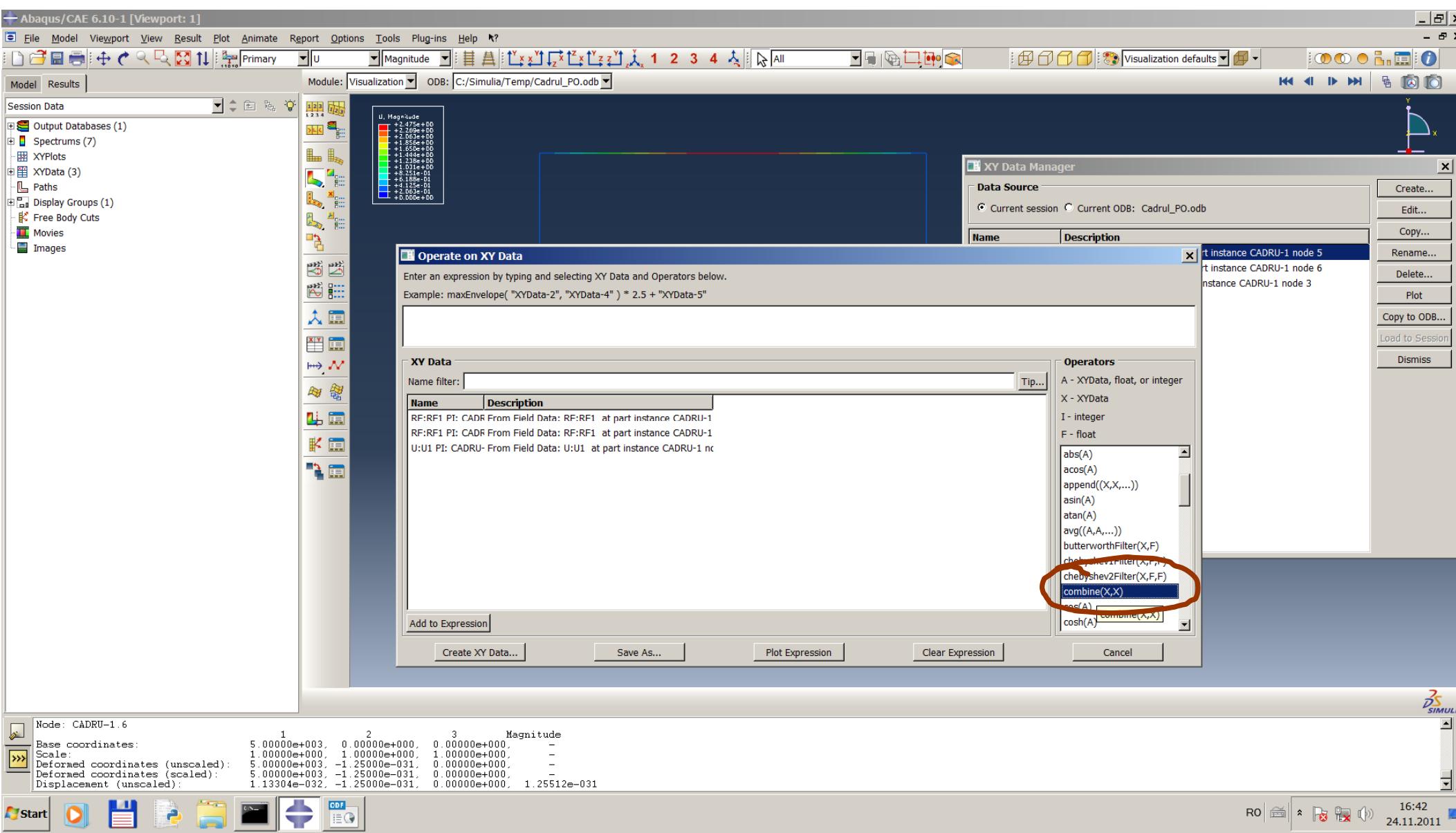


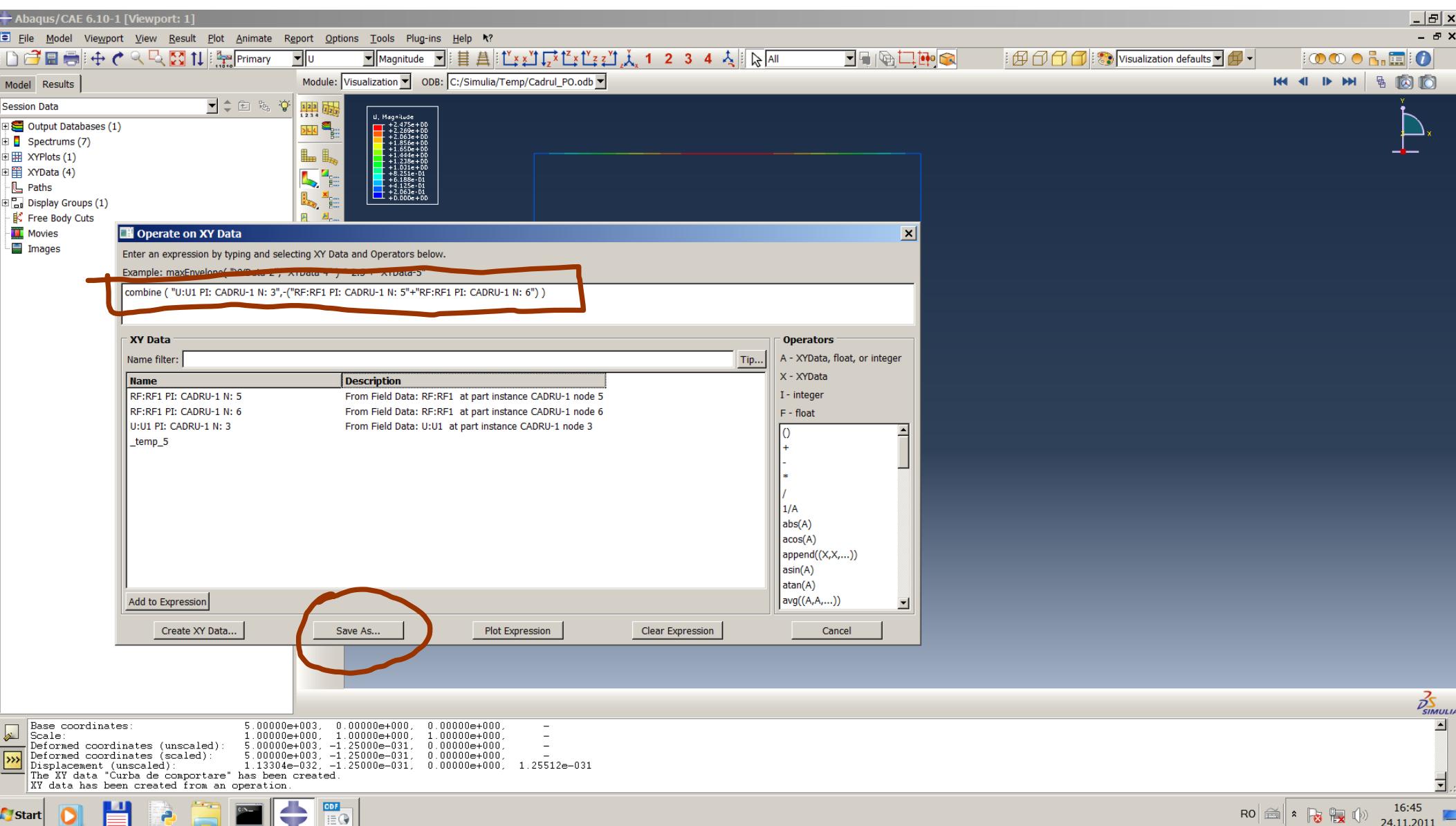


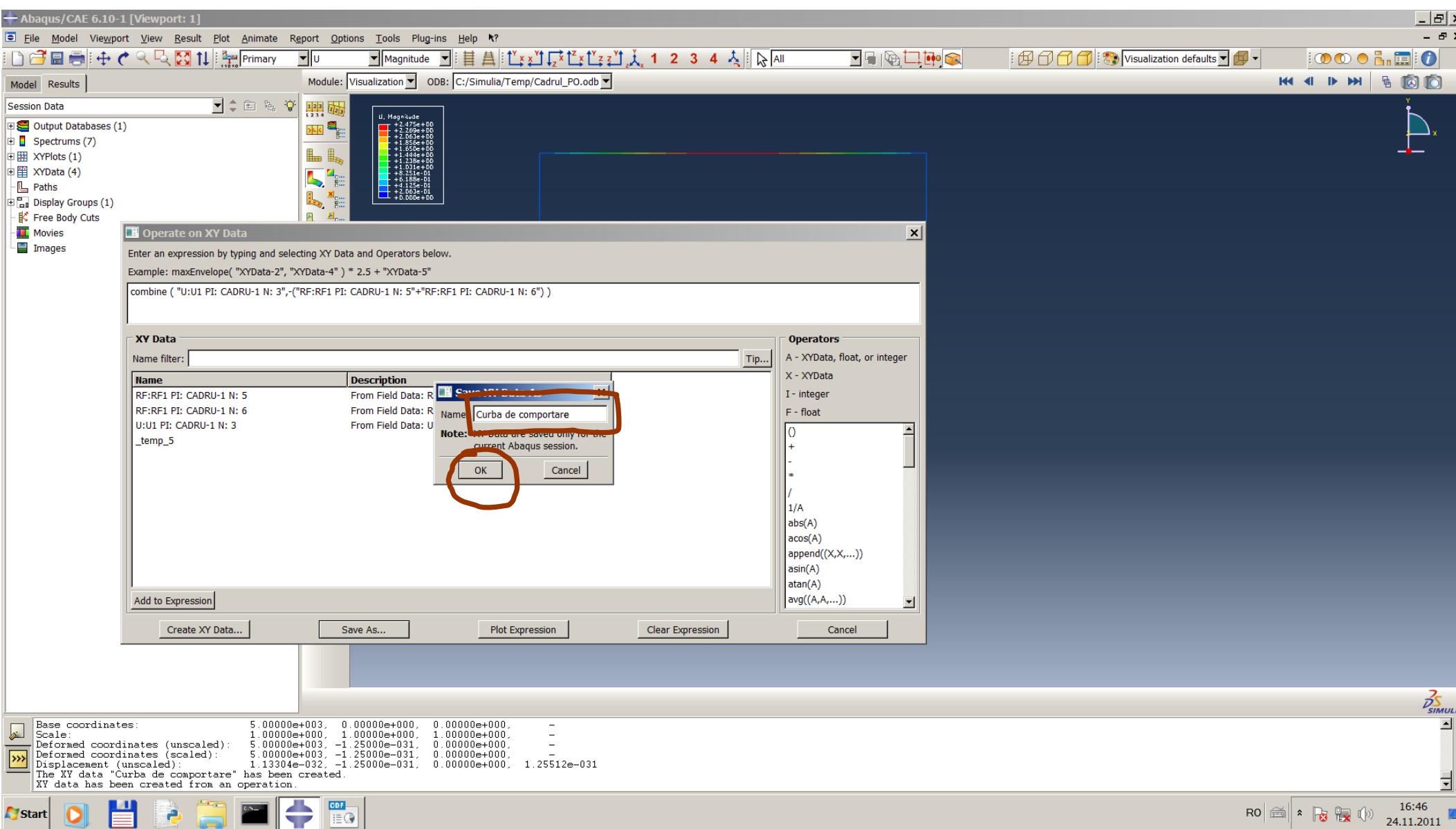


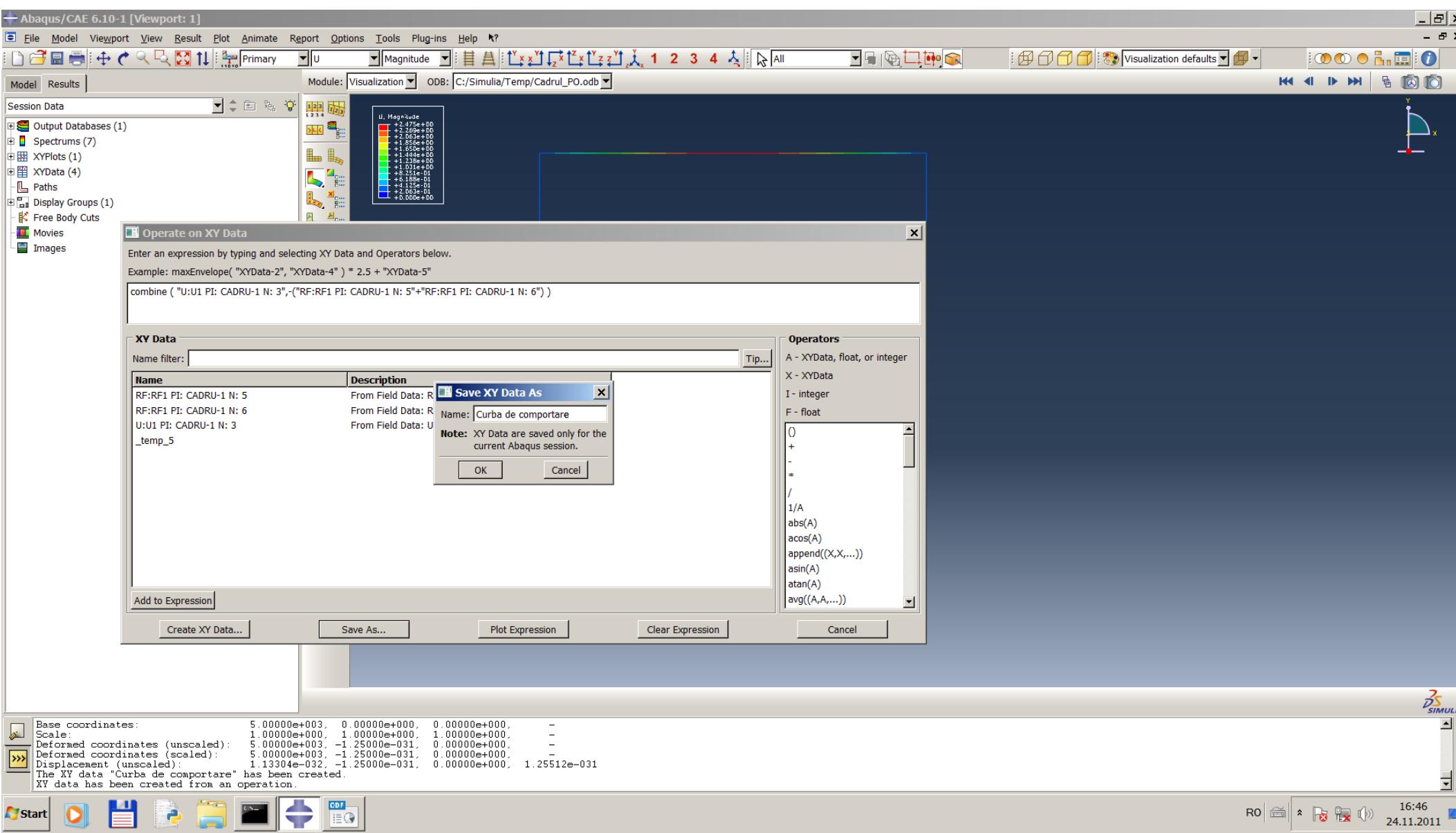


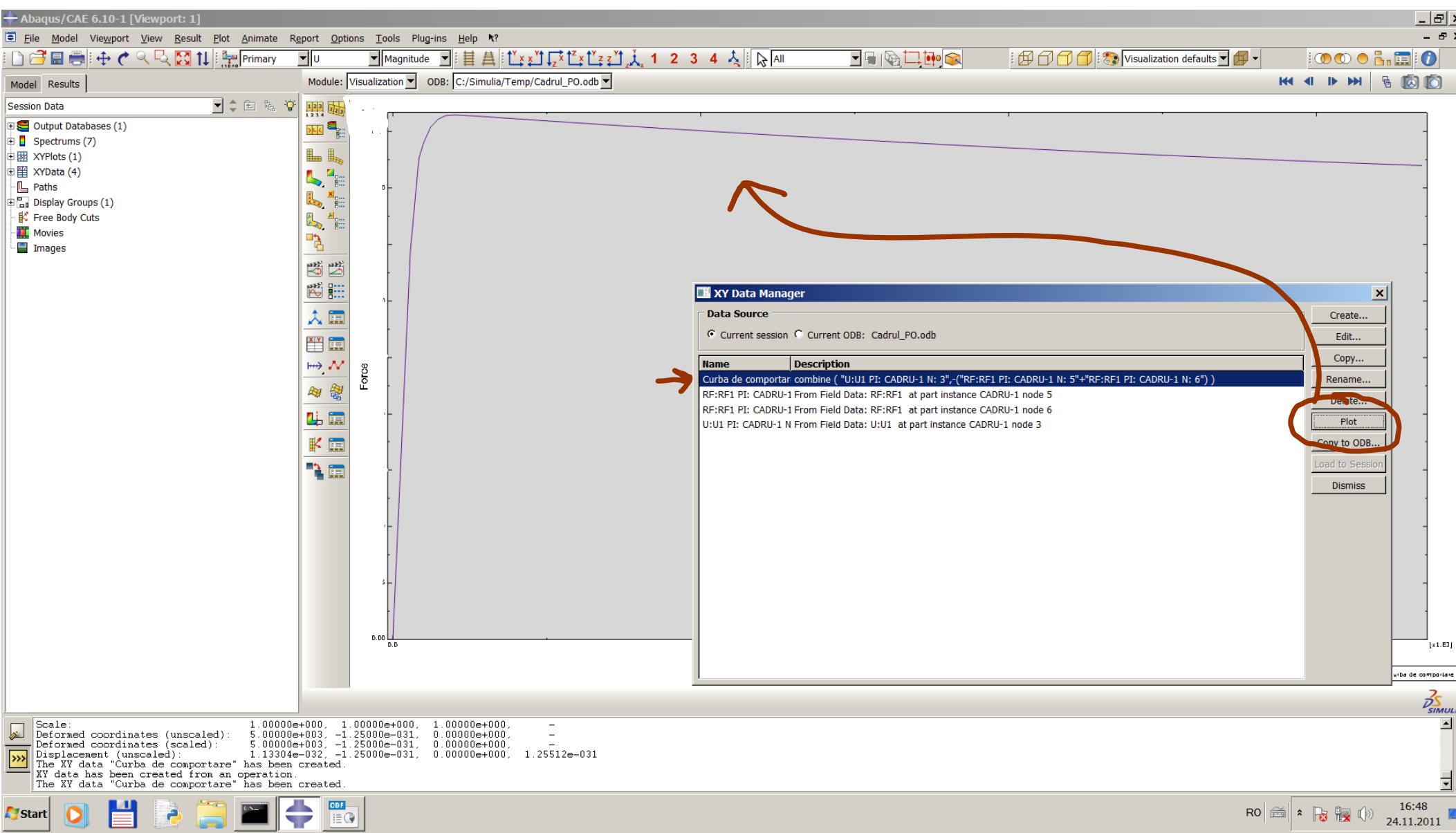


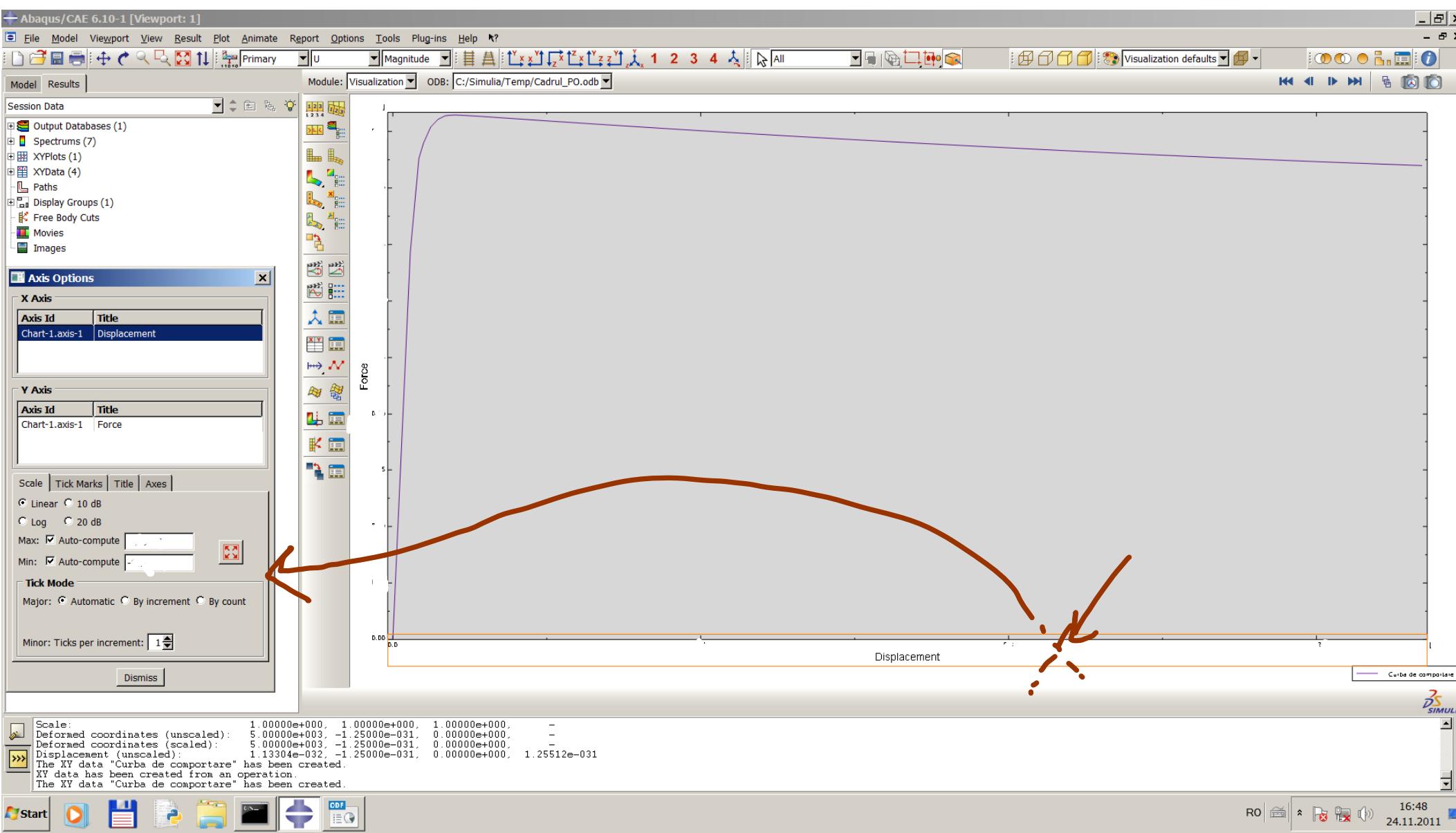


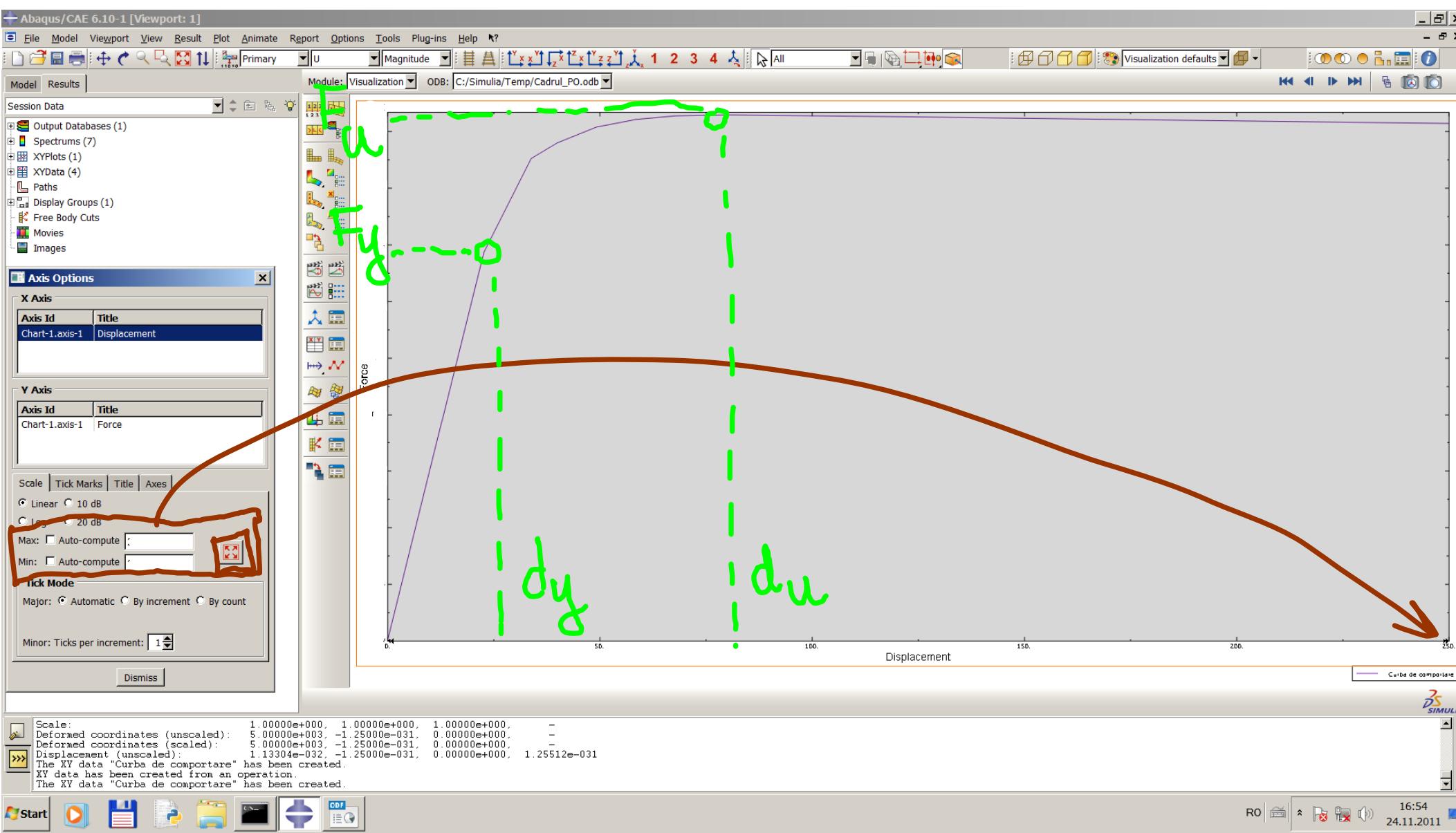












# Rezultatele

- $F_y, F_u = ?$     343.59kN; 464.56kN
  - $d_y, d_u = ?$     22.68 mm; 81.16 mm
- 
- SAP     $d_y = 24.55 \text{ mm}$      $F_y=358.58 \text{ kN}$
  - SAP     $d_u = 85.73 \text{ mm}$      $F_u=451.25 \text{ kN}$