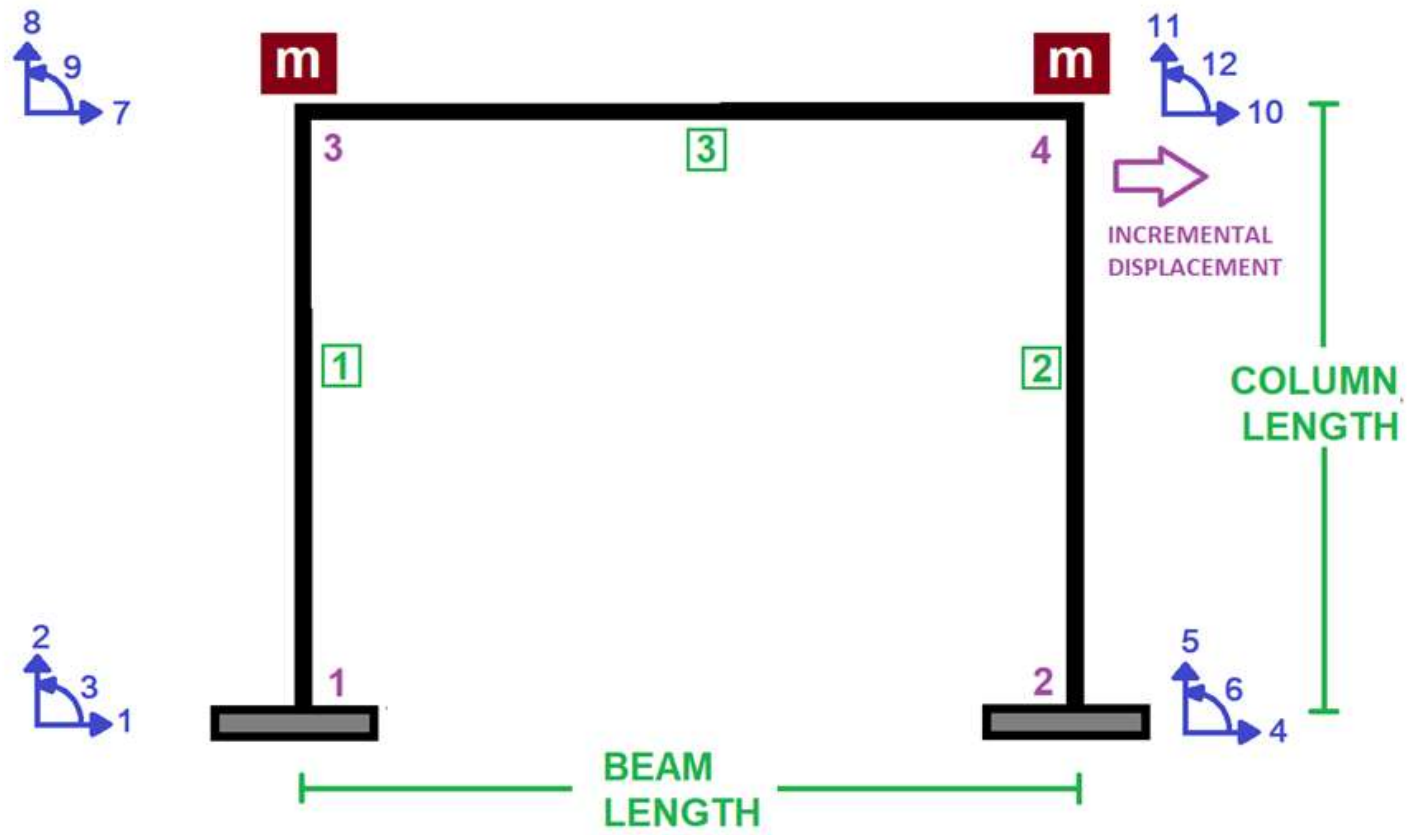


IN THE NAME OF ALLAH, THE MOST GRACIOUS, THE MOST MERCIFUL

**OPTIMIZATION OF STRUCTURAL BEHAVIOR
COEFFICIENT USING PUSHOVER ANALYSIS OF
CONCRETE FRAME SECTIONS:
EVALUATING STRAIN HARDENING AND ULTIMATE
STRAIN EFFECTS IN OPENSEES. DETERMINING
OPTIMAL COLUMN SECTION DEPTH FOR A TARGET
STRUCTURAL BEHAVIOR COEFFICIENT VIA THE
NEWTON-RAPHSON METHOD.**

WRITTEN BY SALAR DELAVAR GHASHGHAEI (QASHQAI)

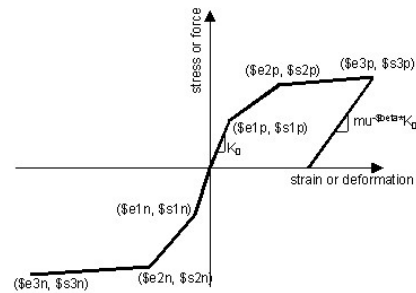




CORE AND COVER CONCRETE RELATION



WITHOUT HARDENING AND ULTIMATE STRAIN



WITH HARDENING AND ULTIMATE STRAIN



COLUMN SECTION



BEAM SECTION

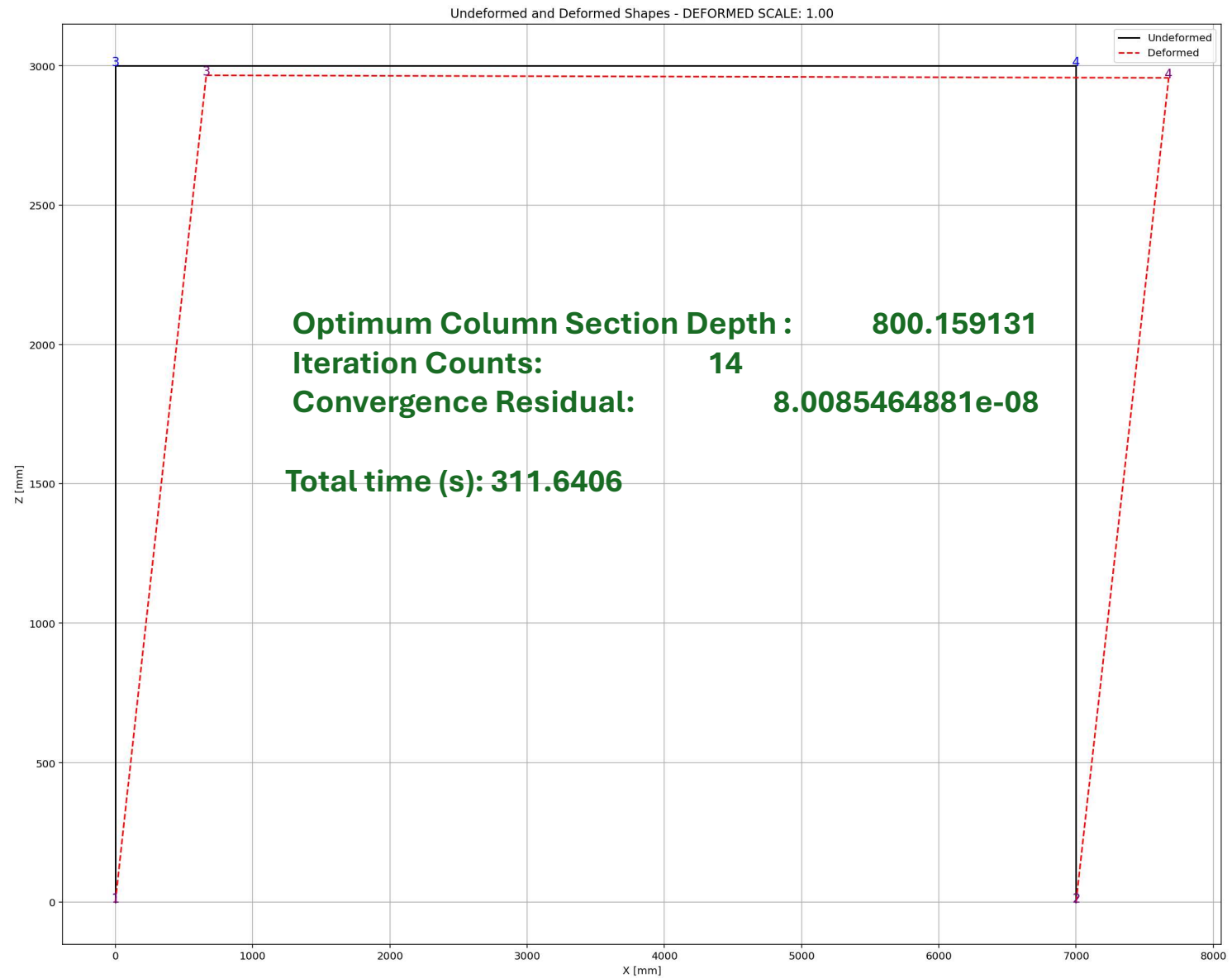
CONCRETE_FRAME_PUS...FFICIENT_Cdepth.py X

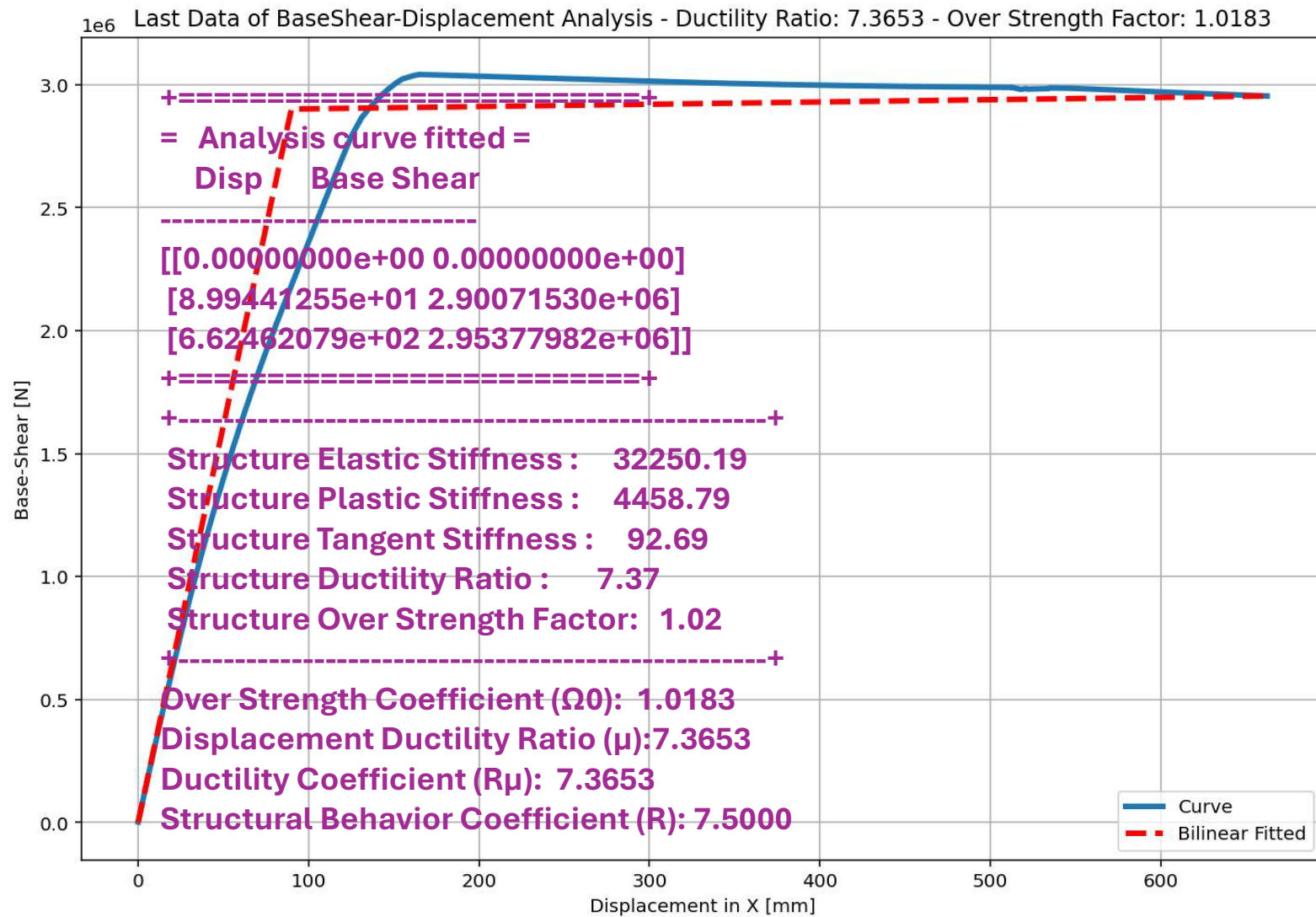
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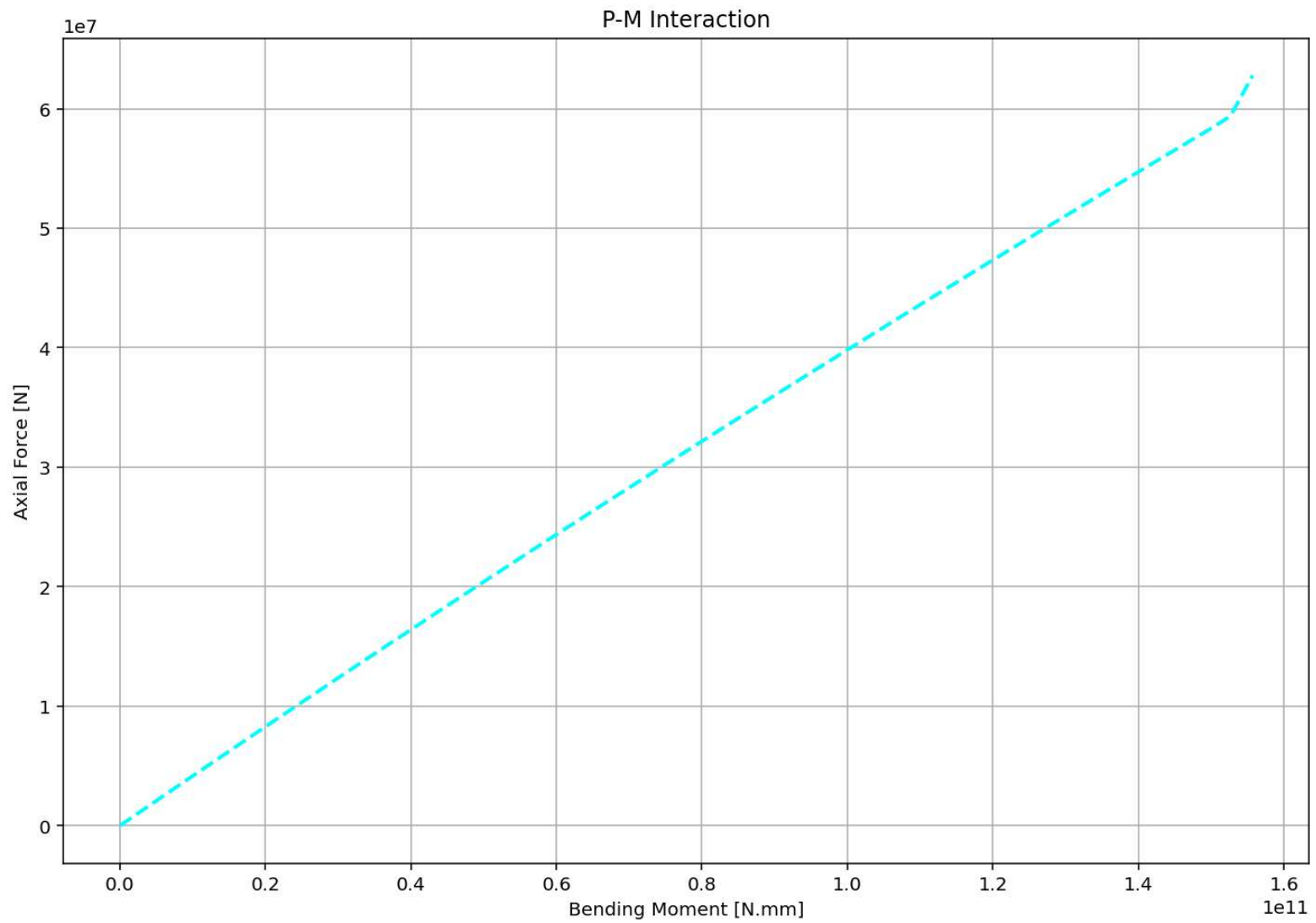
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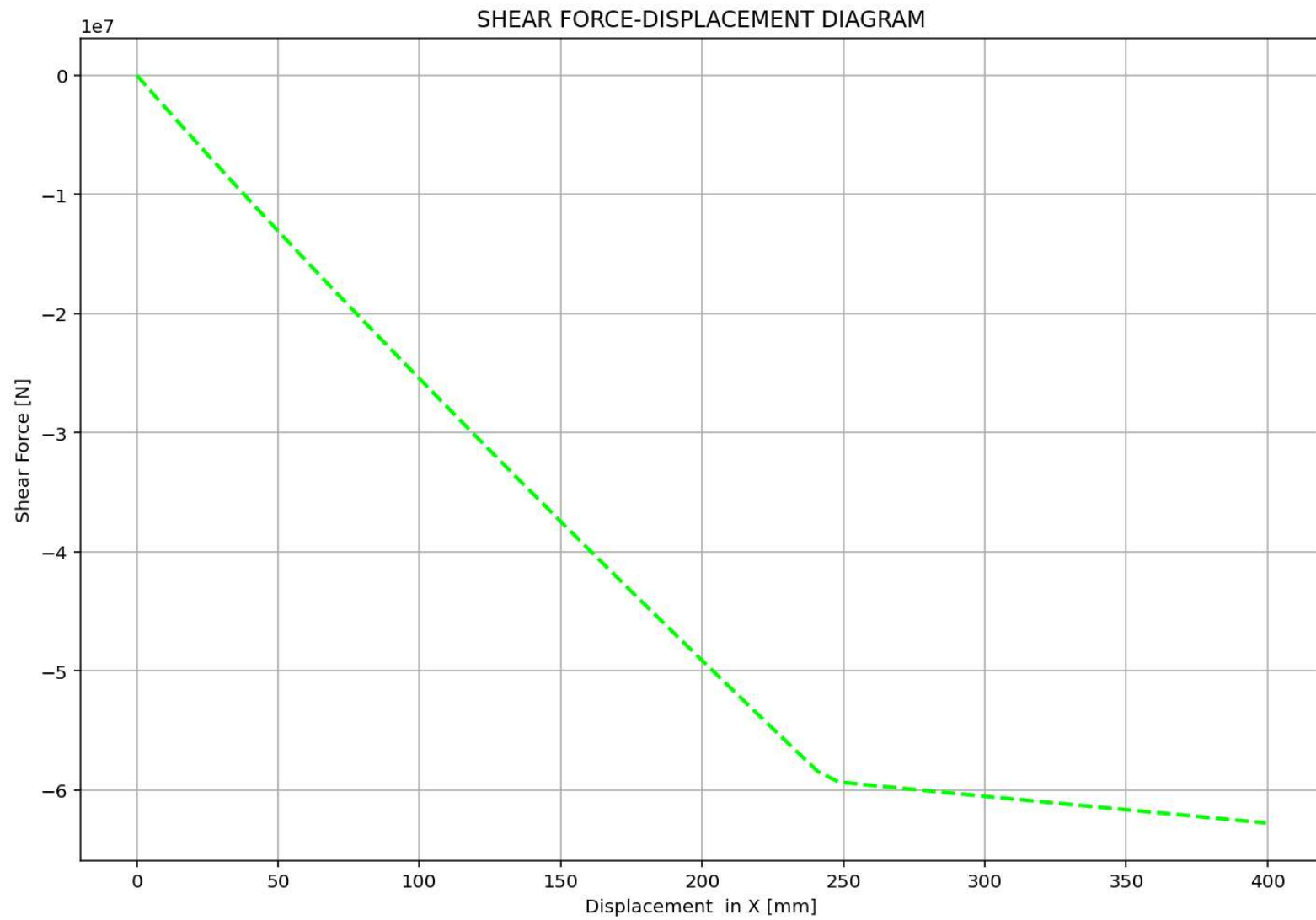
Inline Conda: anaconda3 (Python 3.12.7) ✓ LSP: Python Line 14, Col 29 UTF-8 CRLF RW Mem 40%

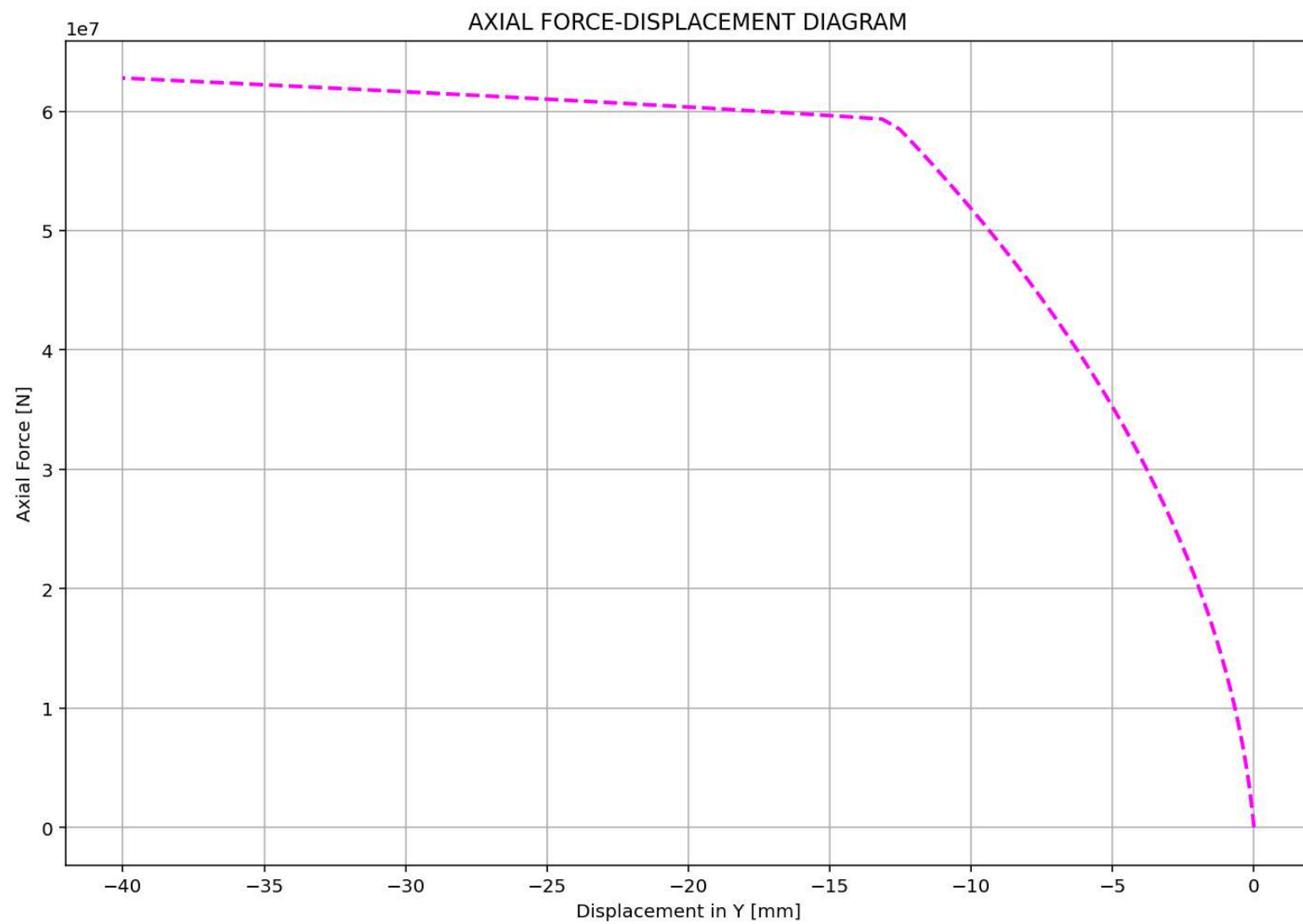
NONLINEAR STATIC ANALYSIS (PUSHOVER)

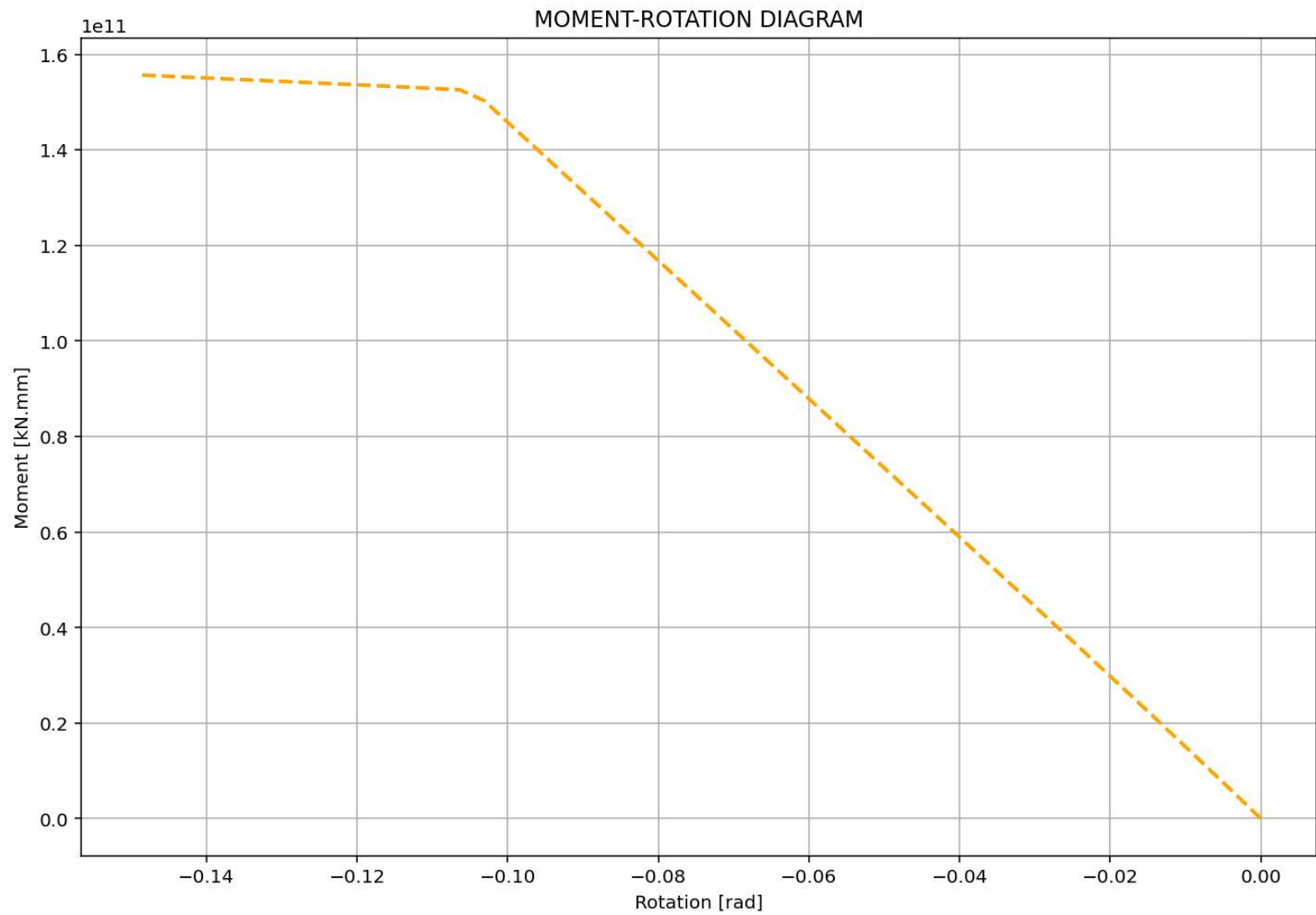




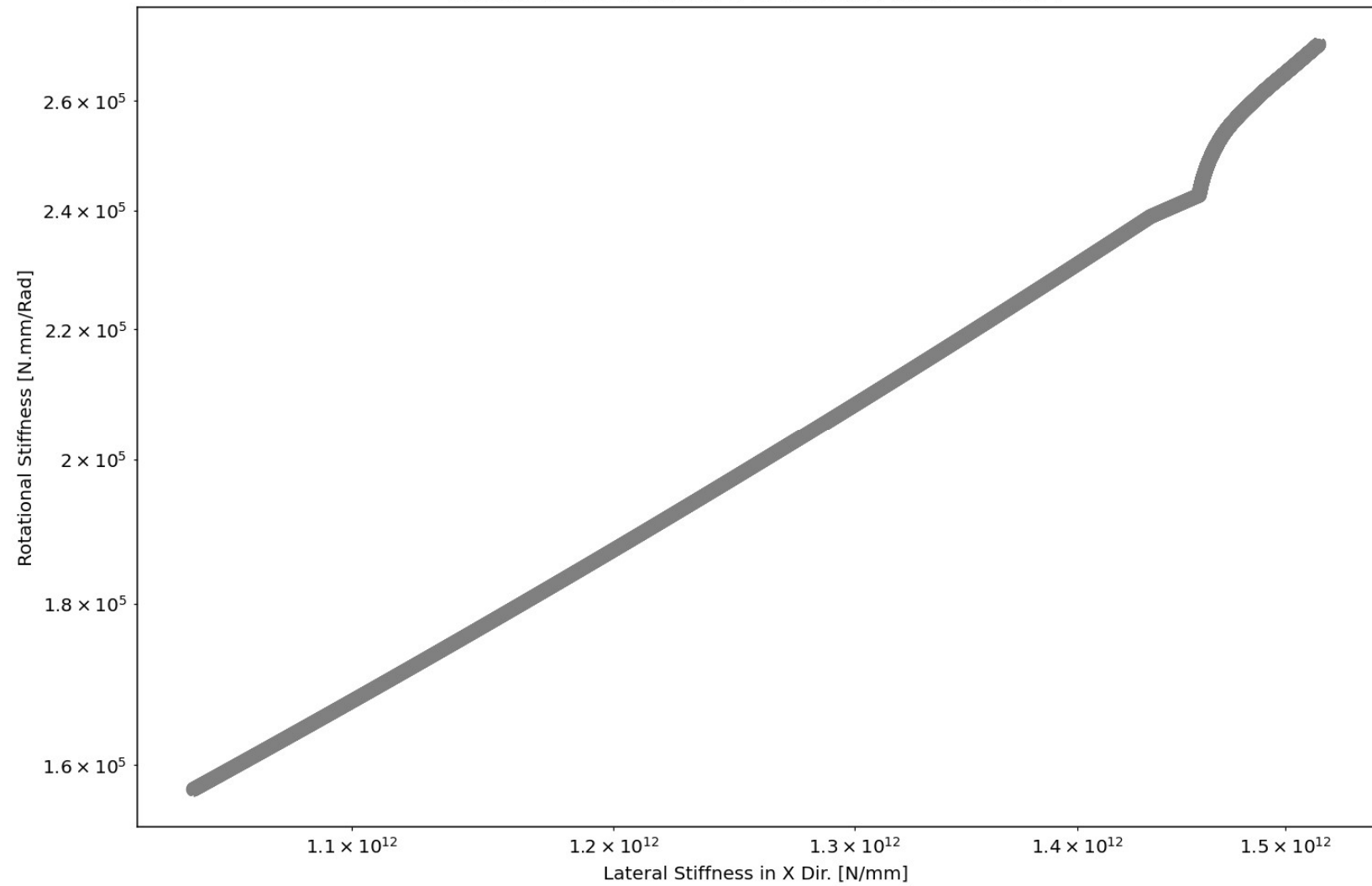








ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM



ROTATIONAL STIFFNESS-LATERAL STIFFNESS DIAGRAM

