# Расчет перекрытия на четырех колоннах

### 4.4.1 Description of the Structure

Structure B was a 15 m square, 250 mm deep normally reinforced high strength concrete slab, supported by four 300 mm square columns at 9 m centres (Figure 4.57). The slenderness ratio of 36 is high for a classically reinforced structure. The characteristic strength of the concrete was approximately 120 $N/mm^2$ at the time of testing (Price, 1996). The slab was constructed as part of a separate investigation into the use of high strength concrete. Four weeks after construction, the slab was loaded to 13.125 $kN/m^2$ which caused heavy cracking.

The cracked floor structure was tested in three configurations.

Configuration 1: In its bare condition (i.e. no access floors) (Figure 4.58).

Configuration 2: With a Hewetson RMG 600 medium grade access floor system installed with an FFH of 500 mm (Figure 4.59). For this configuration, the panels were loose laid onto the pedestals.

Configuration 3: Same as Configuration 2 but with the panels mechanically fixed to the pedestals.

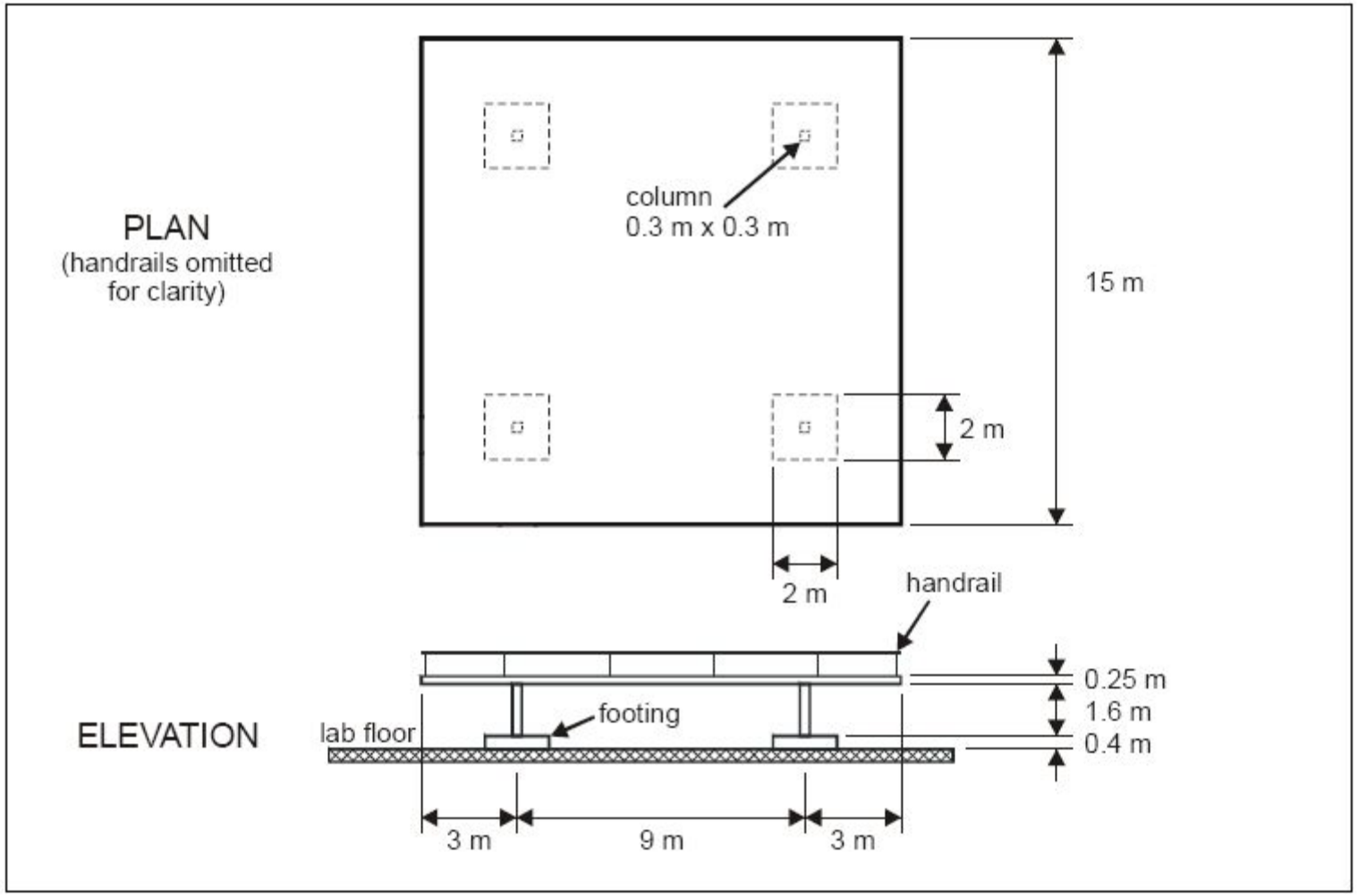
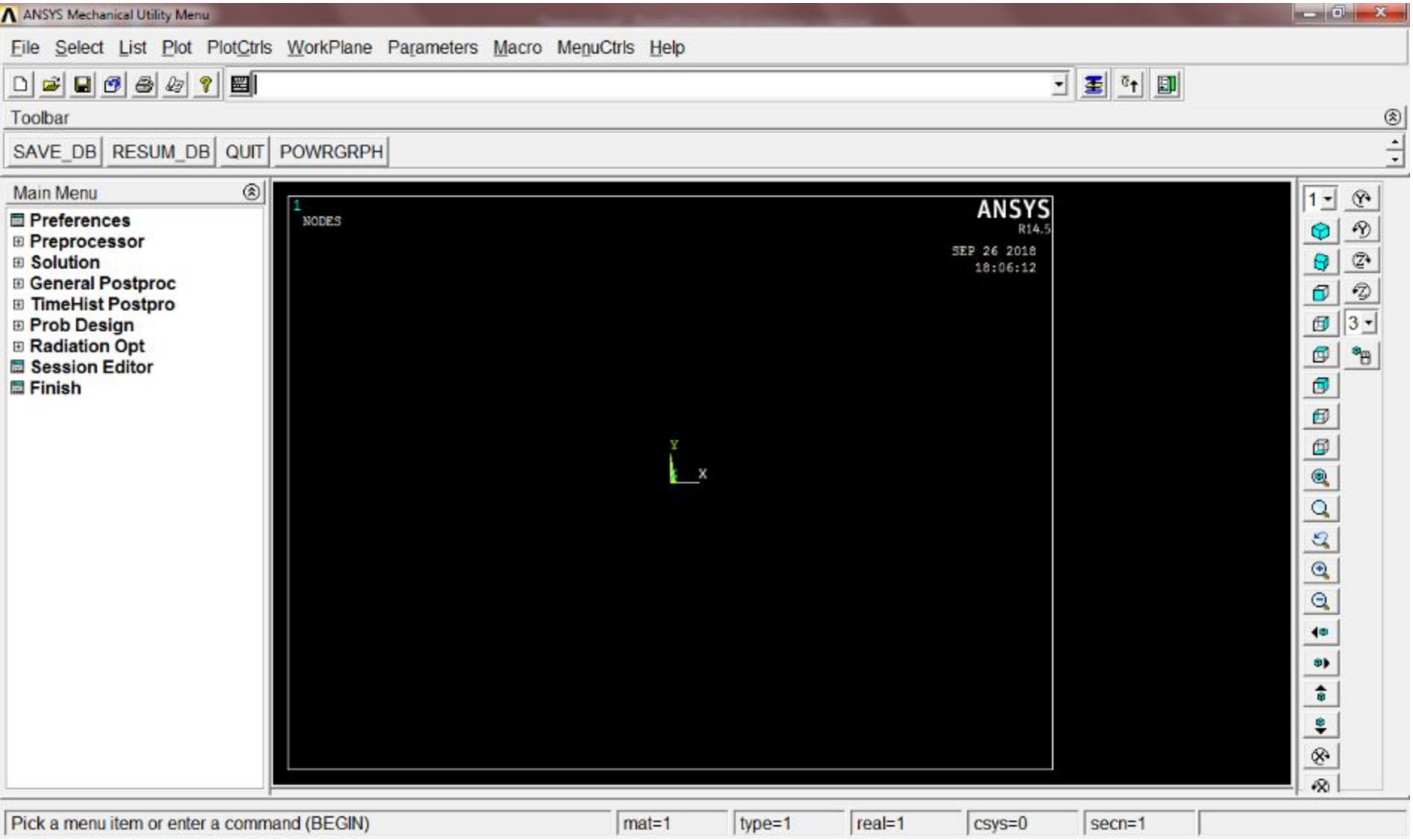



**Figure 4.57: Structure B - Configuration.**

**Figure 4.58: Structure B (Configuration 1) - General View of Structure B in its Bare Condition.**


ANSYS Mechanical Utility Menu
File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help
Toolbar
SAVE_DB RESUM_DB QUIT POWRGRPH
Main Menu
Preferences
Preprocessor
Solution
General Postproc
TimeHist Postpro
Prob Design
Radiation Opt
Session Editor
Finish
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ANSYS Mechanical Utility Menu

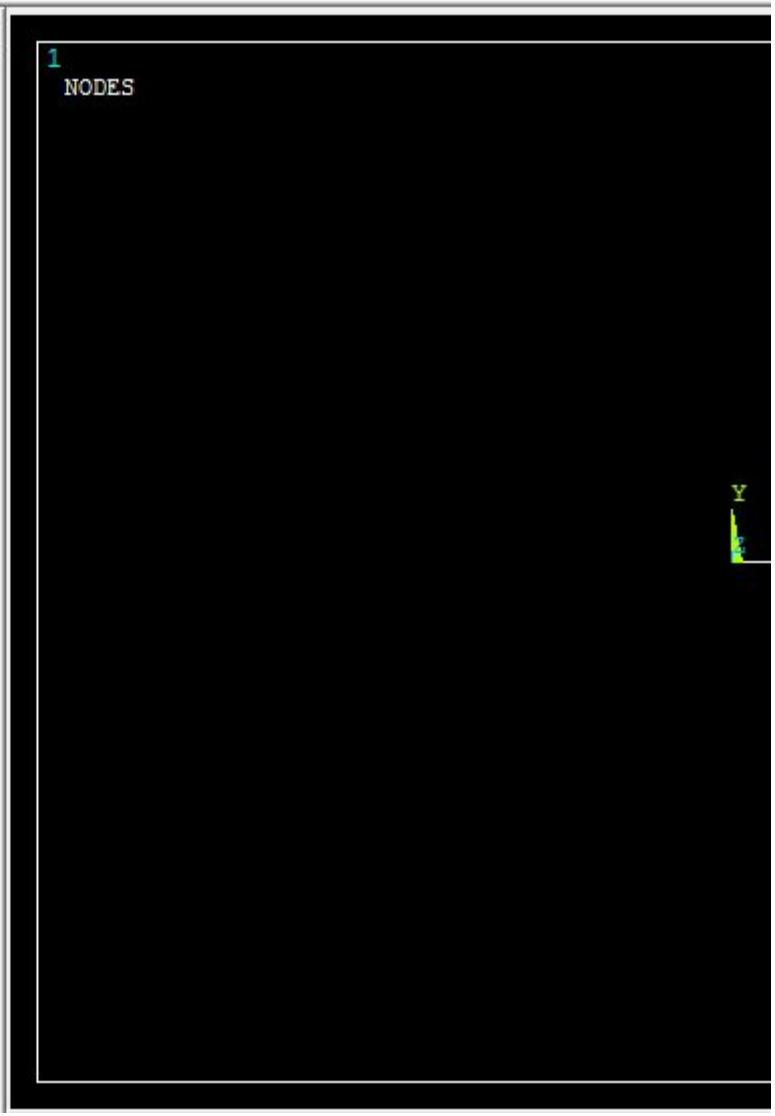
File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help

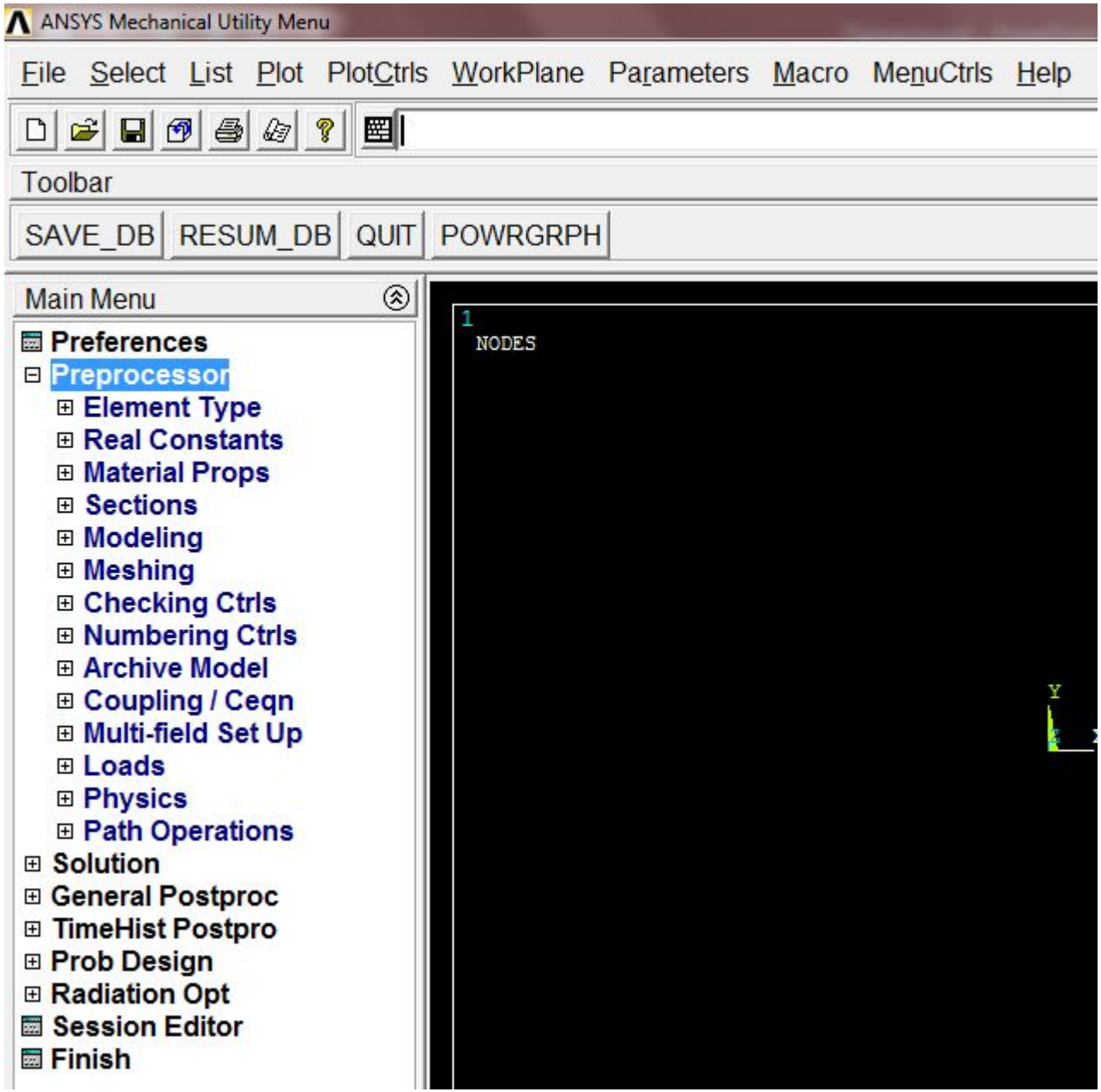
Toolbar

SAVE_DB RESUM_DB QUIT POWRGRPH

Main Menu

- Preferences
- Preprocessor
- Solution
- General Postproc
- TimeHist Postpro
- Prob Design
- Radiation Opt
- Session Editor
- Finish




ANSYS Mechanical Utility Menu
File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help
Toolbar
SAVE_DB RESUM_DB QUIT POWRGRPH
Main Menu
Preferences
Preprocessor
Element Type
Real Constants
Material Props
Sections
Modeling
Meshing
Checking Ctrls
Numbering Ctrls
Archive Model
Coupling / Ceqn
Multi-field Set Up
Loads
Physics
Path Operations
Solution
General Postproc
TimeHist Postpro
Prob Design
Radiation Opt
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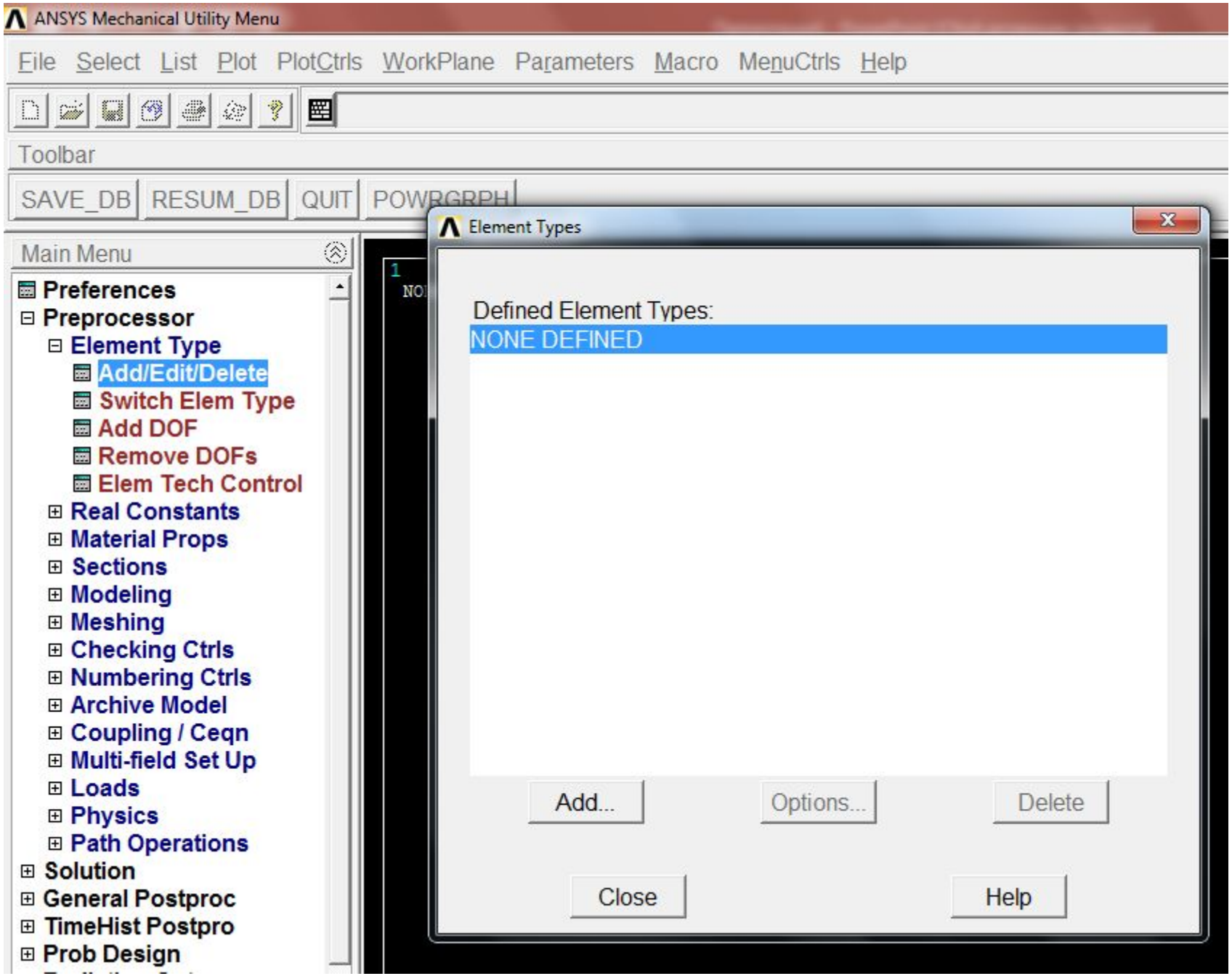
ANSYS Mechanical Utility Menu
File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help
Toolbar
SAVE_DB RESUM_DB QUIT POWRGRPH
Main Menu
Preferences
Preprocessor
Element Type
Add/Edit/Delete
Switch Elem Type
Add DOF
Remove DOFs
Elem Tech Control
Real Constants
Material Props
Sections
Modeling
Meshing
Checking Ctrls
Numbering Ctrls
Archive Model
Coupling / Ceqn
Multi-field Set Up
Loads
Physics
Path Operations
Solution
General Postproc
TimeHist Postpro
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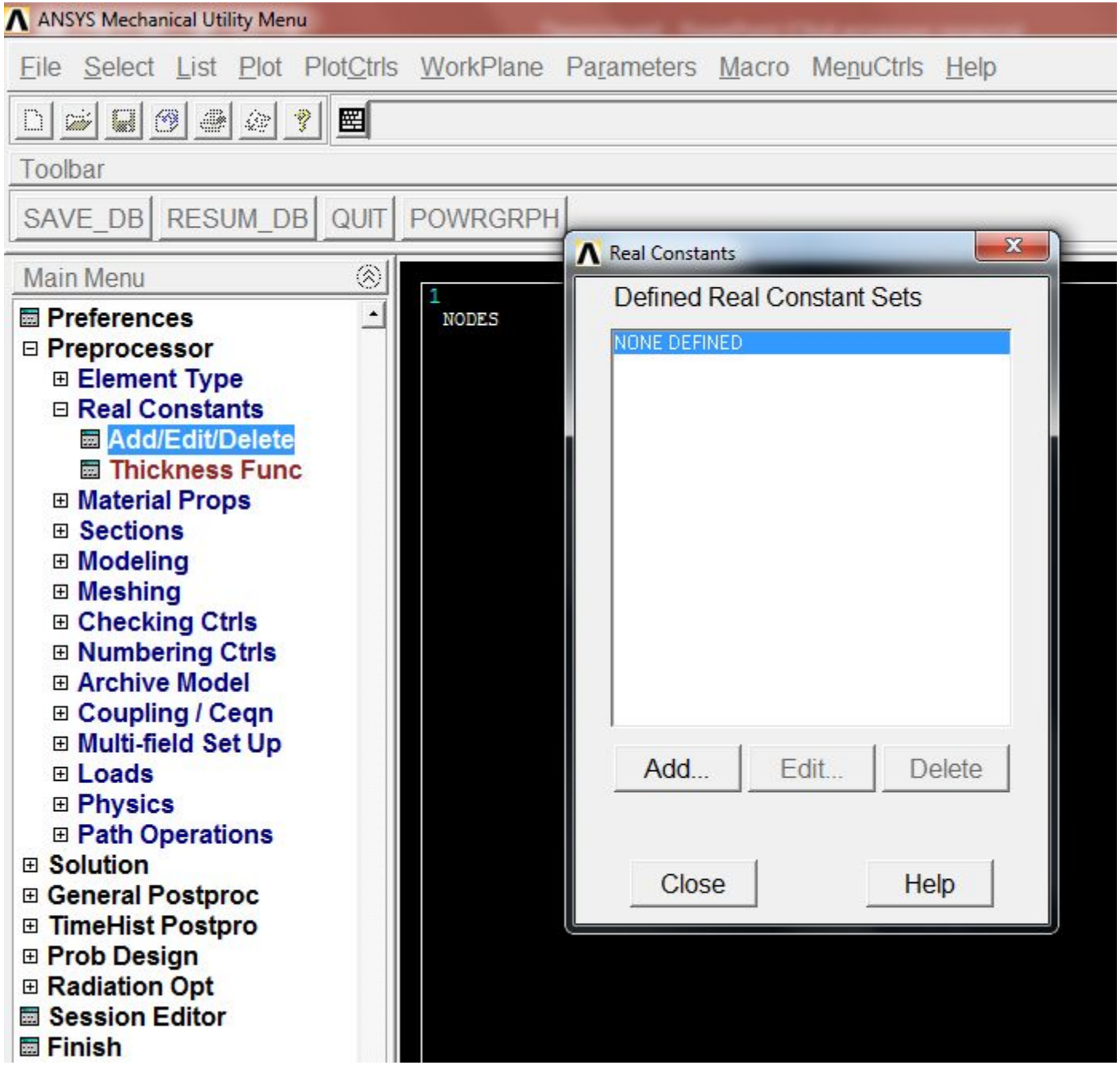
ANSYS Mechanical Utility Menu
File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help
Toolbar
SAVE_DB RESUM_DB QUIT POWRGRPH
Main Menu
Preferences
Preprocessor
Element Type
Real Constants
Add/Edit/Delete
Thickness Func
Material Props
Sections
Modeling
Meshing
Checking Ctrls
Numbering Ctrls
Archive Model
Coupling / Ceqn
Multi-field Set Up
Loads
Physics
Path Operations
Solution
General Postproc
TimeHist Postpro
Prob Design
Radiation Opt
Session Editor
Finish
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Delete
Close
Help

ANSYS Mechanical Utility Menu

File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help

Toolbar

SAVE_DB RESUM_DB QU

Main Menu

- Preferences
- Preprocessor
  - Element Type
  - Real Constants
  - Material Props
    - Material Library
    - Temperature Units
    - Material Models
    - Convert ALPx
    - Change Mat Num
    - Write to File
    - Read from File
  - Sections
  - Modeling
  - Meshing
  - Checking Ctrls
  - Numbering Ctrls
  - Archive Model
  - Coupling / Ceqn
  - Multi-field Set Up
  - Loads
  - Physics
  - Path Operations
- Solution
- General Postproc
- TimeHist Postpro
- Prob Design

Define Material Model Behavior

Material Edit Favorite Help

Material Models Defined

Material Model Number 1

Material Models Available

- Favorites
- Structural
  - Linear
    - Elastic
      - Isotropic
      - Orthotropic
      - Anisotropic
  - Nonlinear
  - Density

Linear Isotropic Properties for Material Number 1

Linear Isotropic Material Properties for Material Number 1

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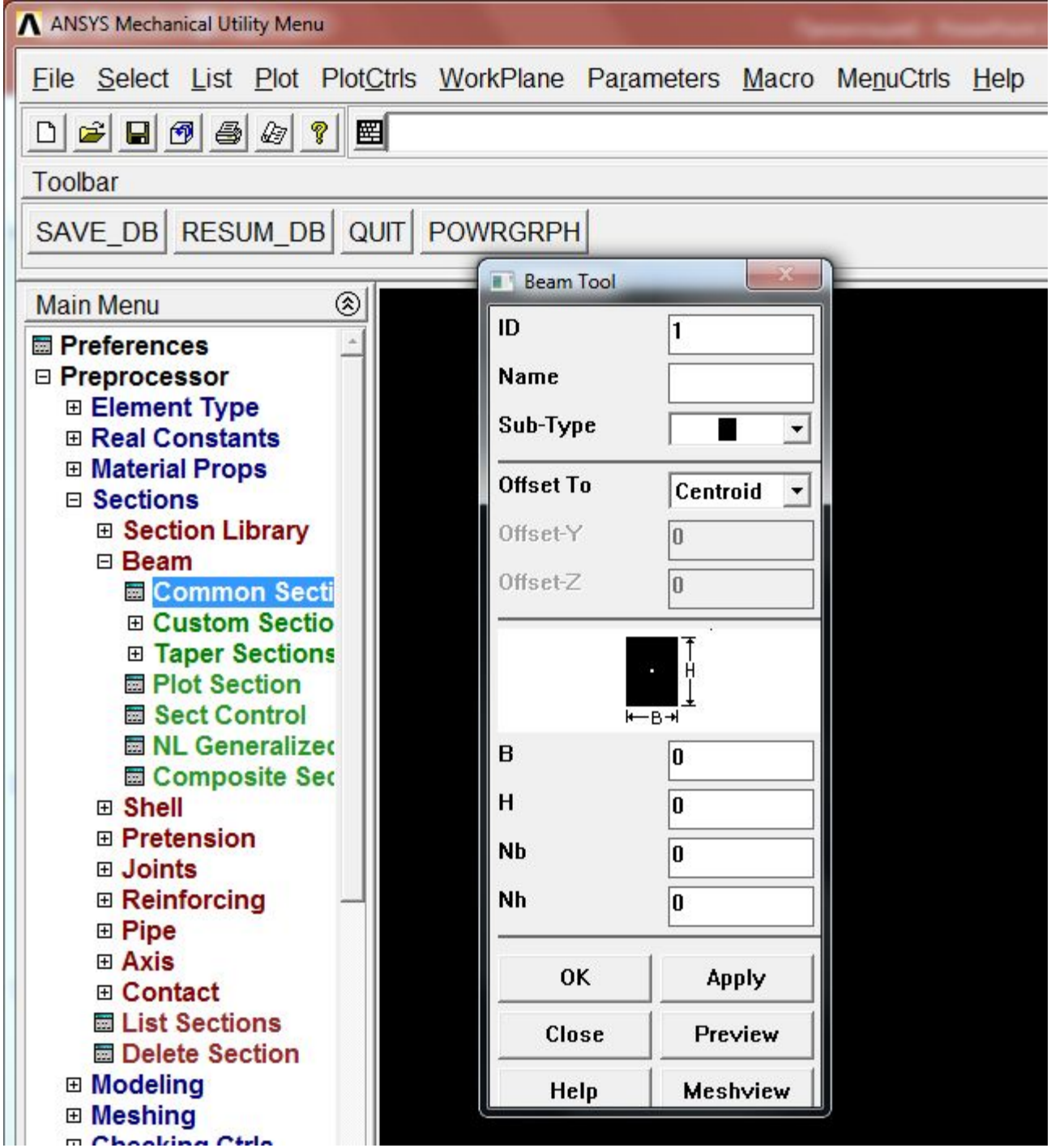
| Temperatures | |
| EX | |
| PRXY | |

Add Temperature | Delete Temperature | Graph

OK | Cancel | Help


ANSYS Mechanical Utility Menu
File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help
Toolbar
SAVE_DB RESUM_DB QUIT POWRGRPH
Main Menu
Preferences
Preprocessor
Element Type
Real Constants
Material Props
Sections
Section Library
Beam
Common Secti
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Taper Sections
Plot Section
Sect Control
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Modeling
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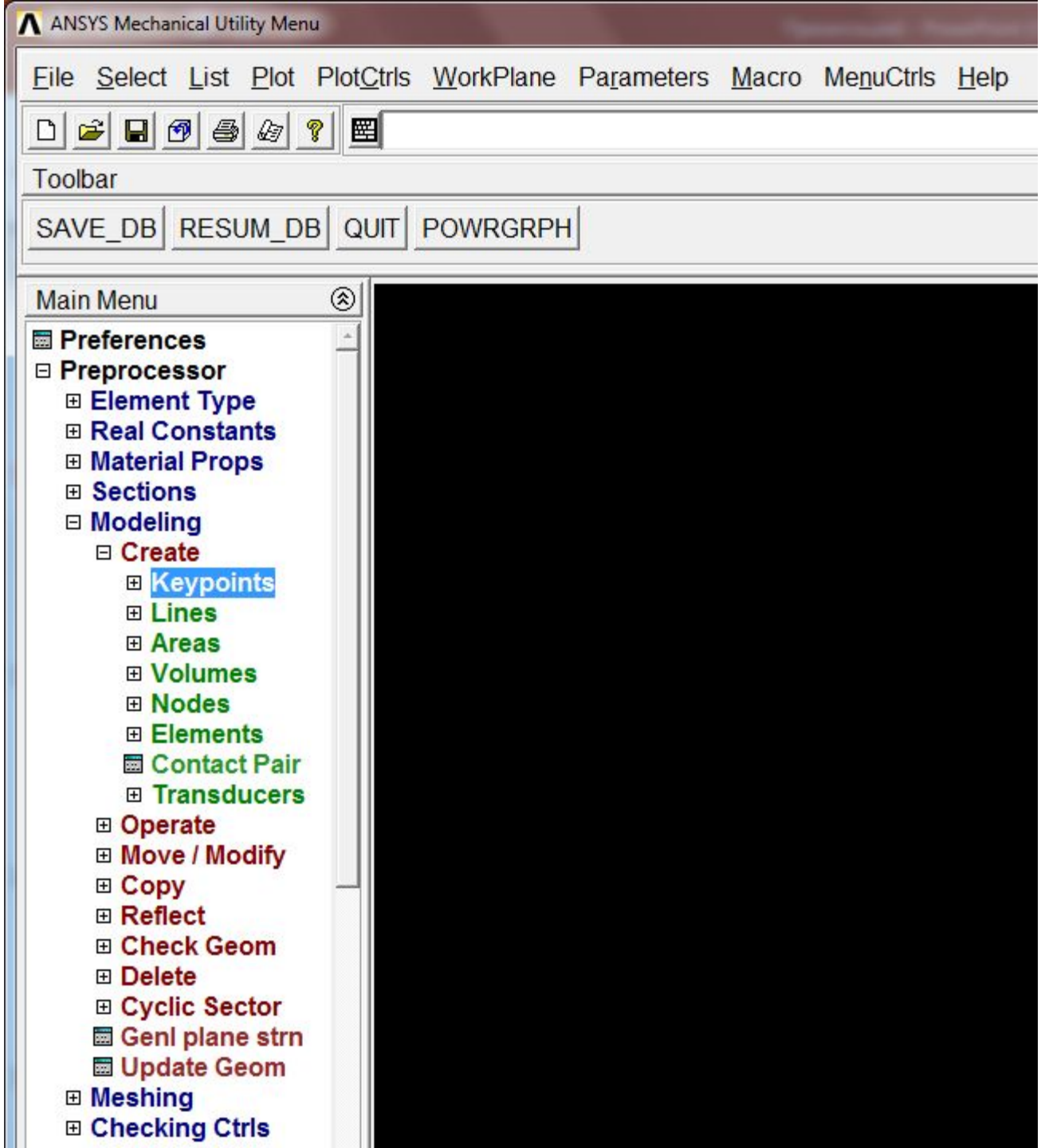
ANSYS Mechanical Utility Menu
File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help
Toolbar
SAVE_DB RESUM_DB QUIT POWRGRPH
Main Menu
Preferences
Preprocessor
Element Type
Real Constants
Material Props
Sections
Modeling
Create
Keypoints
Lines
Areas
Volumes
Nodes
Elements
Contact Pair
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Operate
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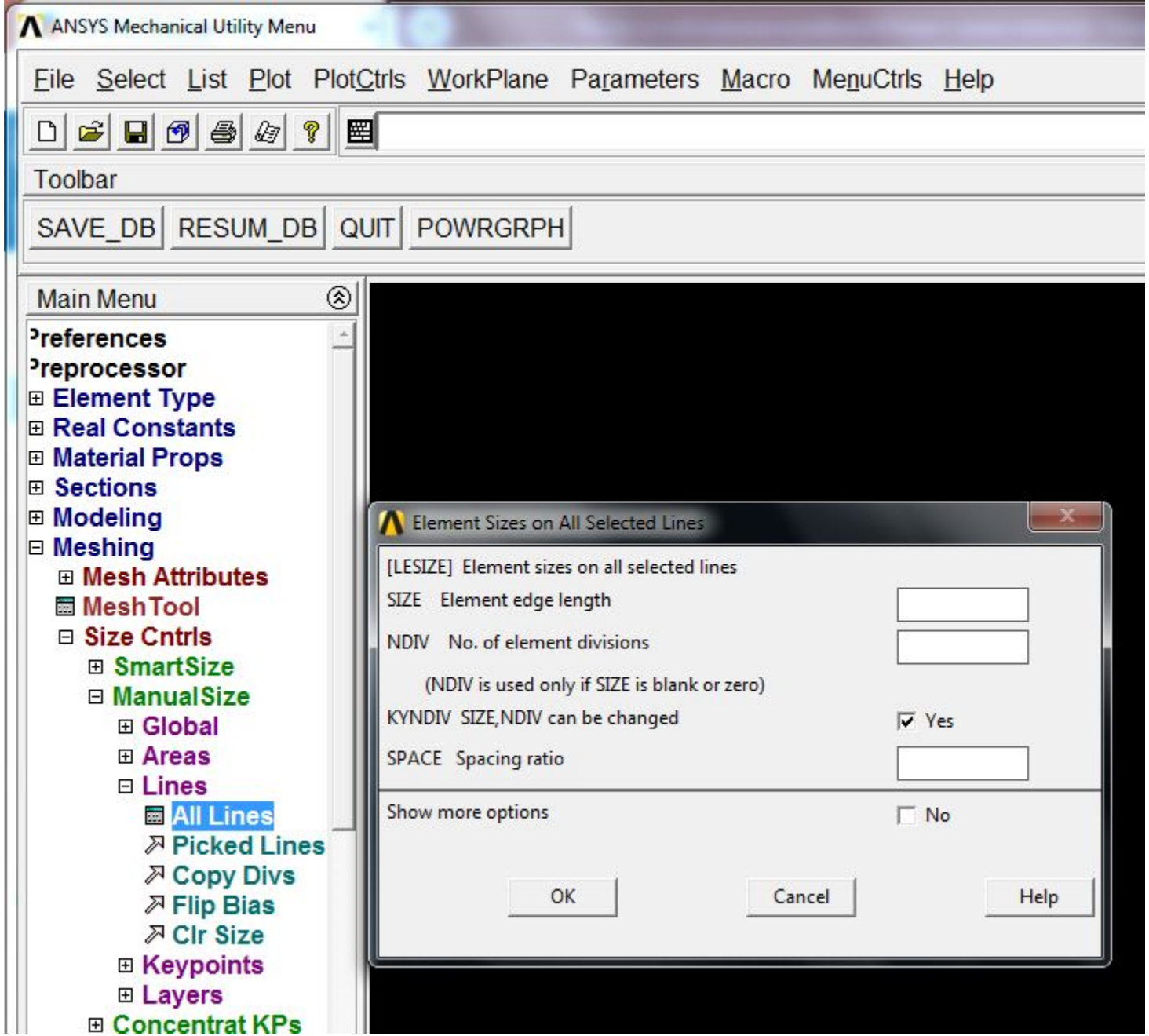
ANSYS Mechanical Utility Menu
File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help
Toolbar
SAVE_DB RESUM_DB QUIT POWRGRPH
Main Menu
Preferences
Preprocessor
Element Type
Real Constants
Material Props
Sections
Modeling
Meshing
Mesh Attributes
MeshTool
Size Cntrls
SmartSize
ManualSize
Global
Areas
Lines
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Flip Bias
Clr Size
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Layers
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Element Sizes on All Selected Lines
[LESIZE] Element sizes on all selected lines
SIZE Element edge length
NDIV No. of element divisions
(NDIV is used only if SIZE is blank or zero)
KYNDIV SIZE,NDIV can be changed
Yes
SPACE Spacing ratio
Show more options
No
OK
Cancel
Help

Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help

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Mesh Areas

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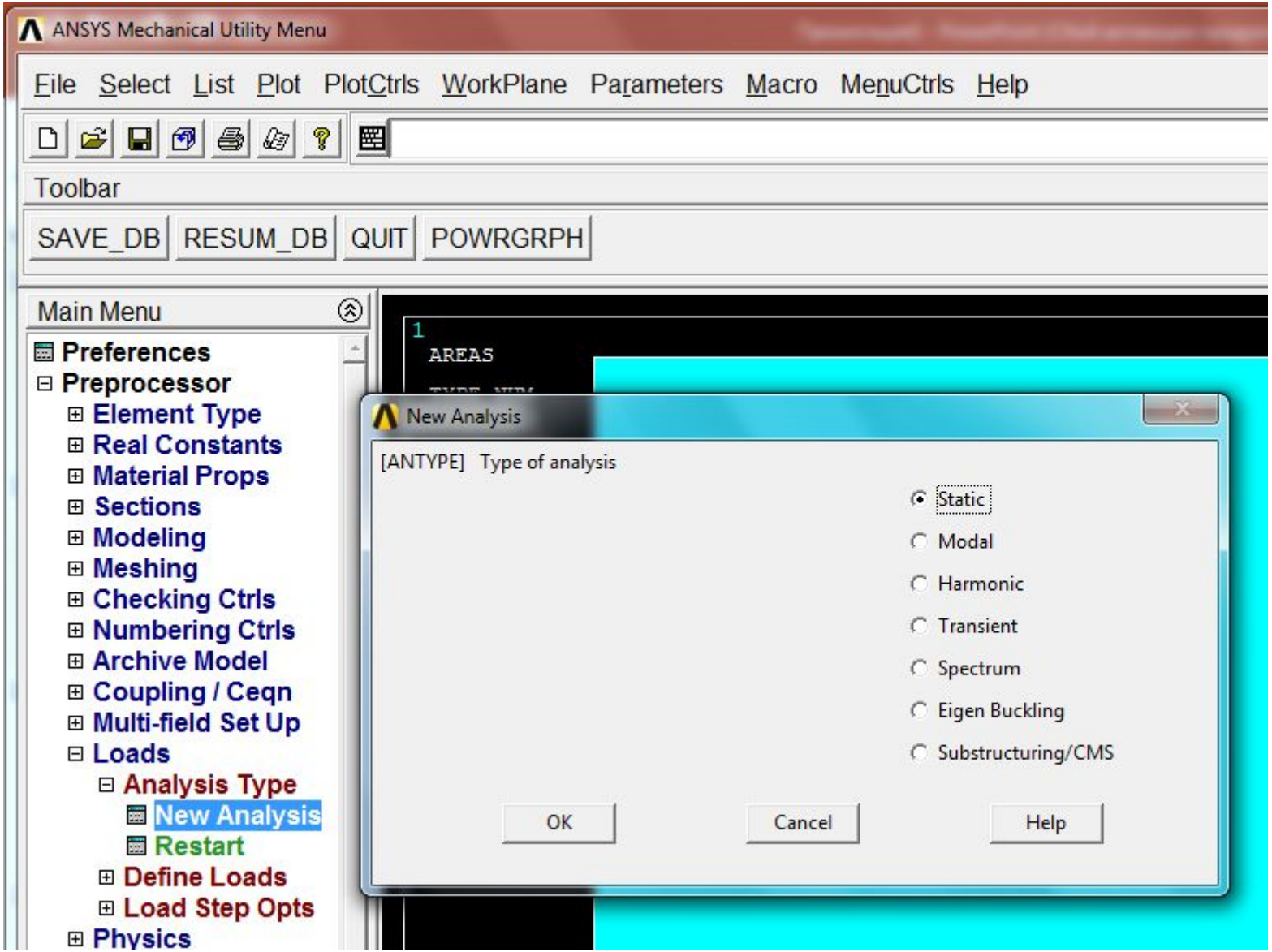
ANSYS Mechanical Utility Menu
File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help
Toolbar
SAVE_DB RESUM_DB QUIT POWRGRPH
Main Menu
Preferences
Preprocessor
Element Type
Real Constants
Material Props
Sections
Modeling
Meshing
Checking Ctrls
Numbering Ctrls
Archive Model
Coupling / Ceqn
Multi-field Set Up
Loads
Analysis Type
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Define Loads
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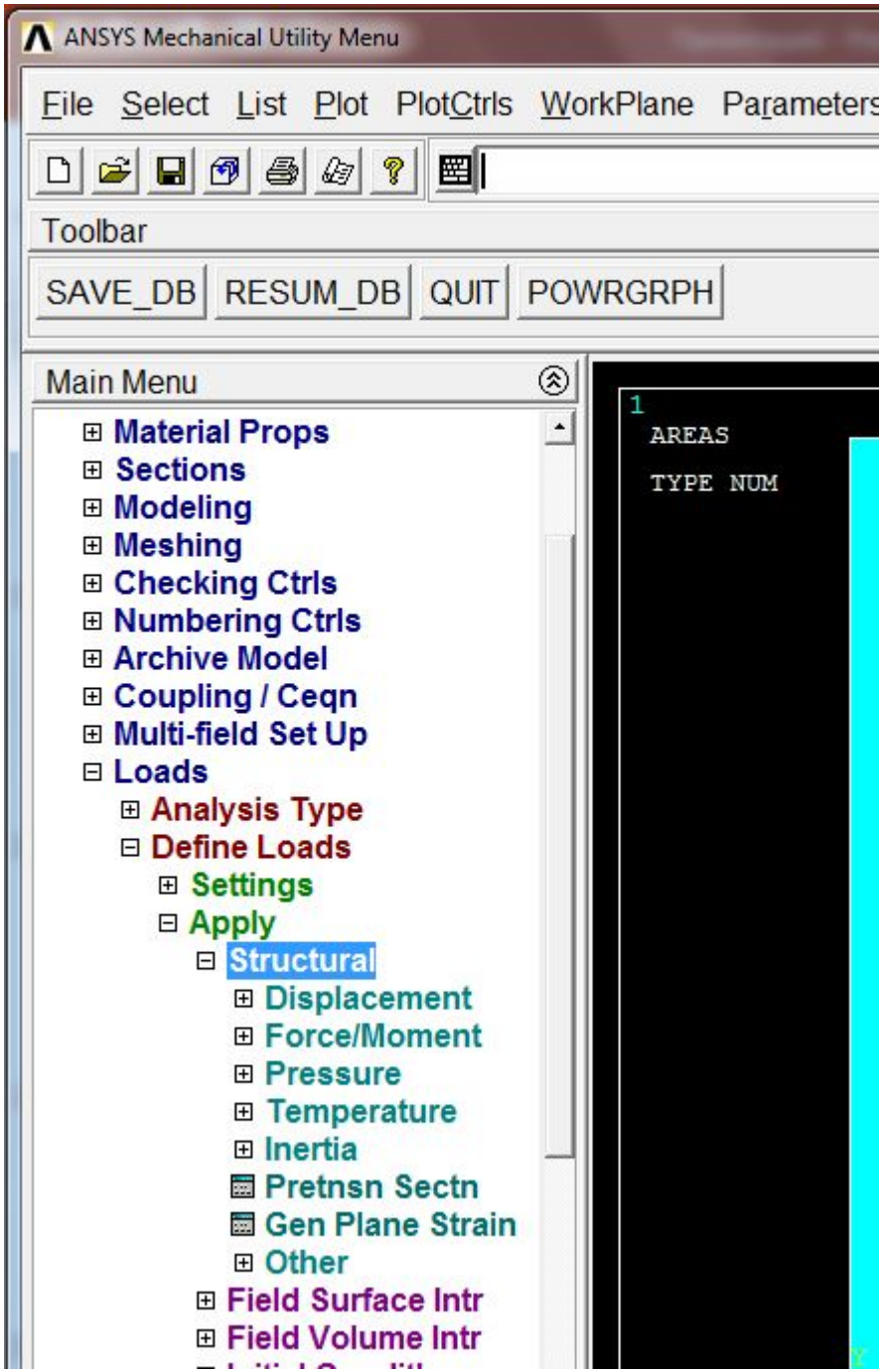
ANSYS Mechanical Utility Menu
File Select List Plot PlotCtrls WorkPlane Parameters
Toolbar
SAVE_DB RESUM_DB QUIT POWRGRPH
Main Menu
Material Props
Sections
Modeling
Meshing
Checking Ctrls
Numbering Ctrls
Archive Model
Coupling / Ceqn
Multi-field Set Up
Loads
Analysis Type
Define Loads
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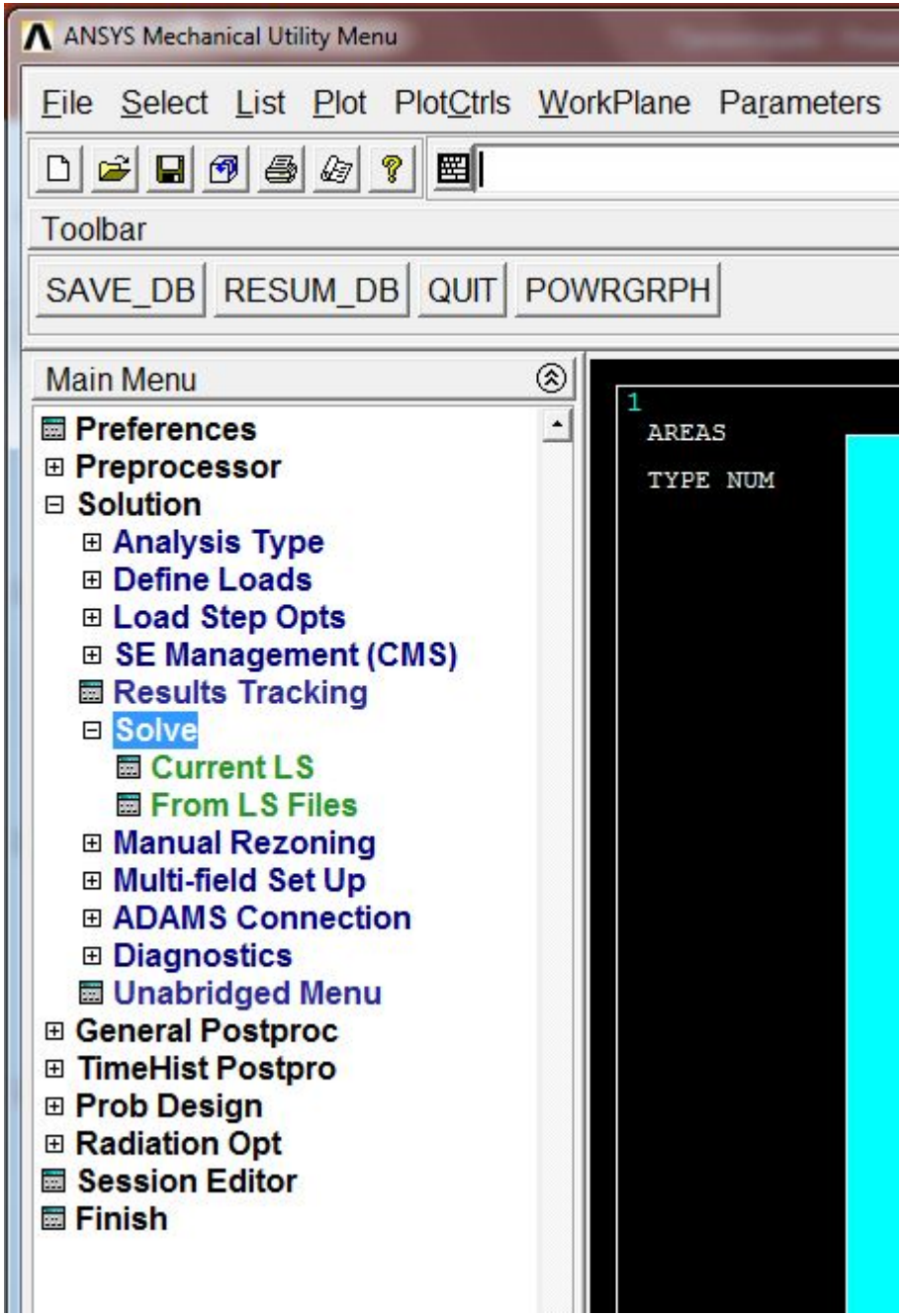
ANSYS Mechanical Utility Menu
File Select List Plot PlotCtrls WorkPlane Parameters
Toolbar
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Main Menu
Preferences
Preprocessor
Solution
Analysis Type
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Multi-field Set Up
ADAMS Connection
Diagnostics
Unabridged Menu
General Postproc
TimeHist Postpro
Prob Design
Radiation Opt
Session Editor
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AREAS
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ANSYS Mechanical Utility Menu

File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help

Toolbar

SAVE_DB RESUM_DB QUIT POWRGRPH

Main Menu

- Preferences
- Preprocessor
- Solution
- General Postproc
  - Data & File Opts
  - Results Summary
  - Read Results
  - Failure Criteria
  - Plot Results
    - Deformed Shape
    - Contour Plot
      - Nodal Solu
      - Element Solu
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      - Line Elem Res
    - Vector Plot
    - Plot Path Item
    - Concrete Plot
    - ThinFilm
  - List Results
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  - Results Viewer
  - Nodal Calcs
  - Element Table
  - Path Operations
  - Surface Operations

Contour Nodal Solution Data

Item to be contoured

- Favorites
- Nodal Solution
  - DOF Solution
    - X-Component of displacement
    - Y-Component of displacement
    - Z-Component of displacement
    - Displacement vector sum
    - X-Component of rotation
    - Y-Component of rotation
    - Z-Component of rotation
    - Rotation vector sum
  - Stress
  - Total Mechanical Strain
  - Elastic Strain

Undisplaced shape key

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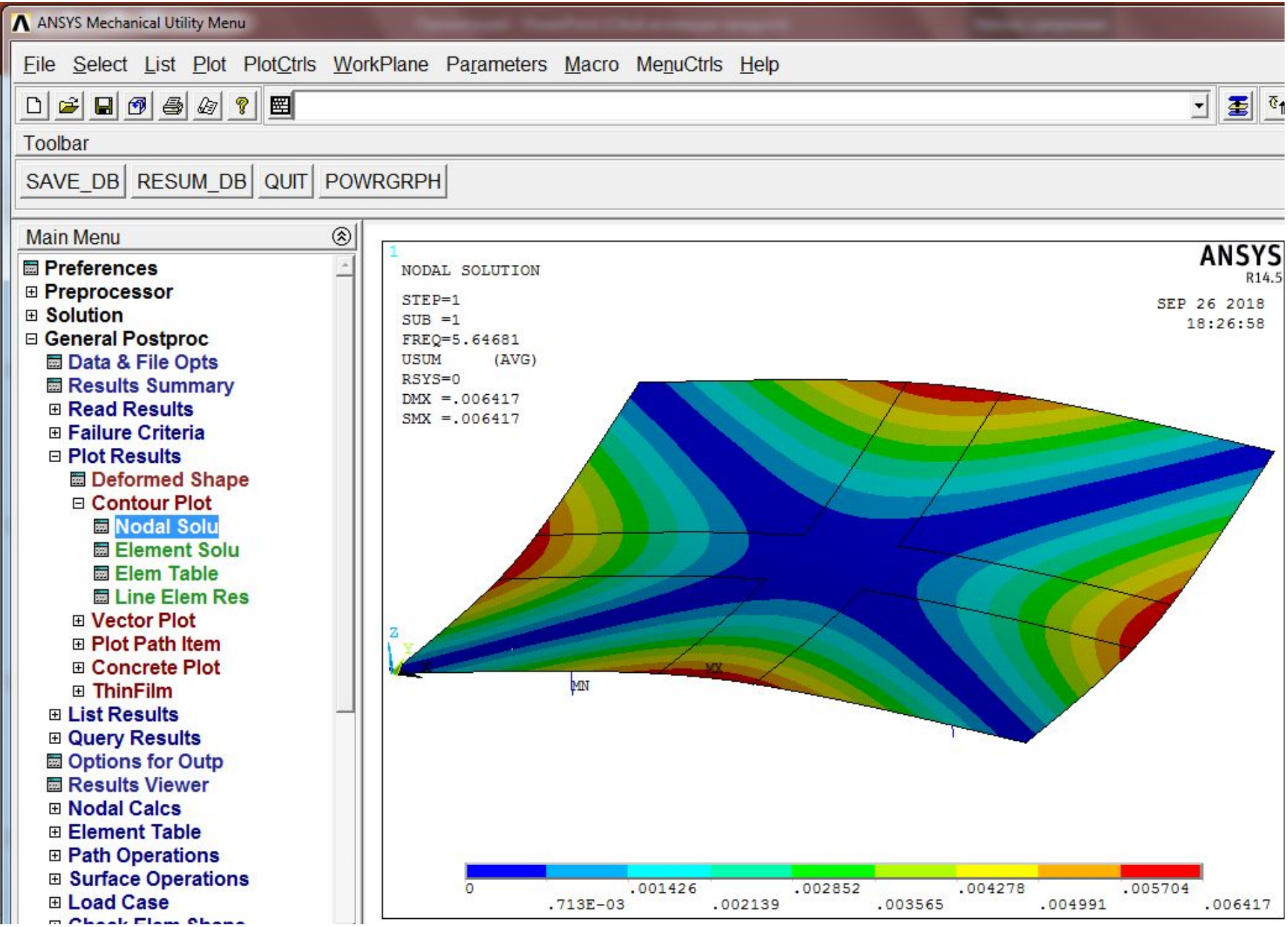
| Undisplaced shape key | Deformed shape only |
| Scale Factor | Auto Calculated |

Additional Options

OK


ANSYS Mechanical Utility Menu
File Select List Plot PlotCtrls WorkPlane Parameters Macro MenuCtrls Help
Toolbar
SAVE_DB RESUM_DB QUIT POWRGRPH
Main Menu
Preferences
Preprocessor
Solution
General Postproc
Data & File Opts
Results Summary
Read Results
Failure Criteria
Plot Results
Deformed Shape
Contour Plot
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Vector Plot
Plot Path Item
Concrete Plot
ThinFilm
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При подключении через Citrix Receiver или Workspace необходимо указывать перед логином домен PVC\ (Пример: PVC\ivanov)

| | |
|---|---|
| Адрес для подключения: | https://pvc.susu.ru |
| Клиент для подключения к ПВК: | https://pvc.susu.ru/Citrix/DesktopWeb/Clients_common/ReceiverDownload/Default.htm |
| Инструкции по подключению: | http://supercomputer.susu.ru/pvc/instructions/ |
| Поддержка пользователей: | supercomputer@susu.ru |

Zimbra: Входящие (1220) | Citrix XenApp - Вход

https://pvc.susu.ru/Citrix/DesktopWeb/auth/login.aspx

Параметры | CITRIX

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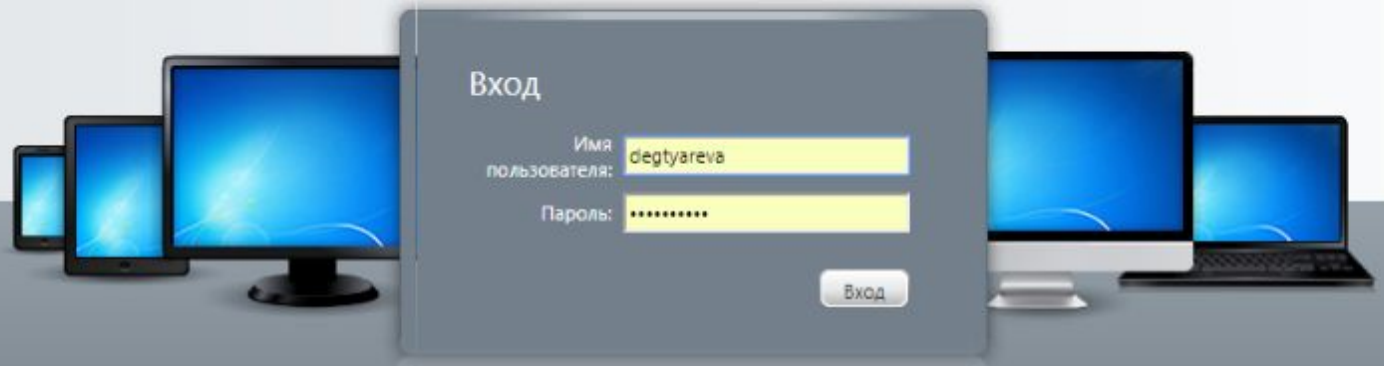
(НАЦИОНАЛЬНЫЙ ИССЛЕДОВАТЕЛЬСКИЙ УНИВЕРСИТЕТ)

# Система «Персональный виртуальный компьютер»

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Инструкция по подключению

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закладки, к которым хотите иметь быстрый доступ. Импортировать закладки...

Поиск

Вы вошли в систему как: degtyareva

Параметры

Выход

CITRIX

Внимание: для сохранения своих документов в ПВК используйте диск H: или каталог "Мои документы"!

**Основные**

Выбрать вид:

ANSYS 17.2
CAD
JetBrains
Linux
Office
Acsocad
AnyLogic
DEFORM Integrated 2D3D
Docear
Google Chrome
IBM Rational
Inkscape
KNIME Analytics Platform
Lazarus
Linux Desktop
Linux Terminal
Mathcad Prime 4 - 1 лицензия
MATLAB Image Processing
MATLAB R2014b
Microsoft Expression Design 4
Microsoft Expression Web 4
Mozilla Firefox
Notepad++
Opera
Paint
PgAdmin3
Putty
QGIS Desktop
Software Ideas Modeler
Sqldeveloper
Univeris
Visual Paradigm
Visual Studio 2015
Visual Studio 2017
WinSCP

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кладки, к которым хотите иметь быстрый доступ. Импортировать закладки...

Поиск

**Вы вошли в систему как: degtyareva**

Параметры | Выход | CITRIX

Внимание: для сохранения своих документов в ПВК используйте диск H: или каталог "Мои документы"!

Основные > **ANSYS 17.2**

Выбрать вид:

Ansys Composite PrepPost 172 | Ansys Electronics Desktop - Maxwell | Ansys Mechanical 172 | Ansys Mechanical APDL Product Launch | Ansys SIwave 172 | CFD-Post 172 | CFX 172

Ansys Mechanical 172

Fluent 172 | ICEM CFD 172 | Simplorer - Ansys Electronics Deskto... | SpaceClaim 172 | TurboGrid 172 | Workbench 172

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Уважаемые пользователи!

1. Загрузить плагин для подключения вы можете по этой ссылке: загрузить клиент для подключения.
После установки укажите адрес сервера pvc.susu.ru, а затем введите учётные данные в домене PVC\ (см. инструкцию с картинками).

2. Пользователи бразуера Firefox должны вручную разрешить запуск плагина Citrix (иконка "лего" слева от адресной строки).

3. Появилась возможность использовать программный пакет **Mathcad**! Для запуска используйте ярлык ПВК-Mathcad или приложение Mathcad Prime.