TMA4220 - Numerical Solution of Partial Differential Equations Using Finite Element Methods **Programming Project**

G. A. Hasle T. Baerland E. Ingebrigtsen

Finite Element Methods on Free Vibrations

The Problem

Optional Subtitle

The Free Vibration Equation

$$\rho \frac{\partial^2 u}{\partial t^2} = \nabla \sigma(u) \tag{1}$$

• Semi-discretization on (1) yields

$$M\ddot{\boldsymbol{u}} = -A\boldsymbol{u} \tag{2}$$

• First item.

- First item.
- Second item.

- First item.
- Second item.
- Third item.

- First item.
- Second item.
- Third item.
- Fourth item.

- First item.
- Second item.
- Third item.
- Fourth item.
- Fifth item.

- First item.
- Second item.
- Third item.
- Fourth item.
- Fifth item. Extra text in the fifth item.

Blocks

Block Title

You can also highlight sections of your presentation in a block, with it's own title

Theorem

There are separate environments for theorems, examples, definitions and proofs.

Example

Here is an example of an example block.

Summary

- The first main message of your talk in one or two lines.
- The second main message of your talk in one or two lines.
- Perhaps a third message, but not more than that.
- Outlook
 - Something you haven't solved.
 - Something else you haven't solved.

For Further Reading I



A. Author.

Handbook of Everything.

Some Press, 1990.



S. Someone.

On this and that.

Journal of This and That, 2(1):50-100, 2000.