

# REINFORCED CONCRETE SUBJECTED TO RESTRAINT FORCES: ANALYTICAL AND NON-LINEAR FE ANALYSIS

## Methodology:

- Analyze and design RC elements subjected to restraint forces using different approaches
- Check the cracking behavior using nonlinear FEA (Abaqus)
- Comparison between the results of different approaches

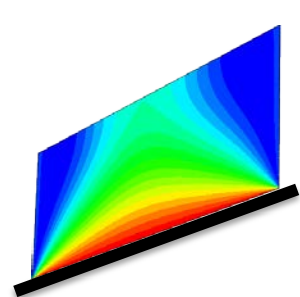
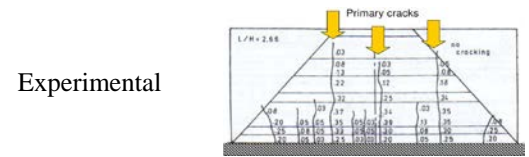
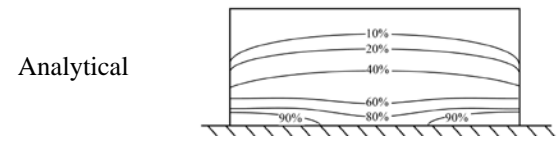
## Outcome:

- A literature review
  - Restraint forces
  - Available analytical/experimental design procedures
  - Non-linear FEA
- Propose an appropriate practical design procedure for cracking control of RC elements under restraint strains

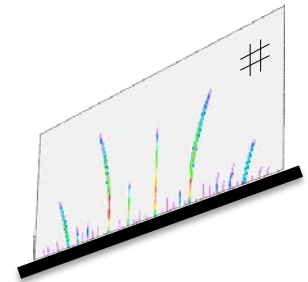
## Supervisor:

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Please submit a printout from Ladok with the application!



Linear FEA



Nonlinear FEA