

# Paris Session 2022



Optical leakage current monitoring as a tool to assess  
the operating state of HVDC cables

SC B1 Insulated Cables - PS1 - Q2

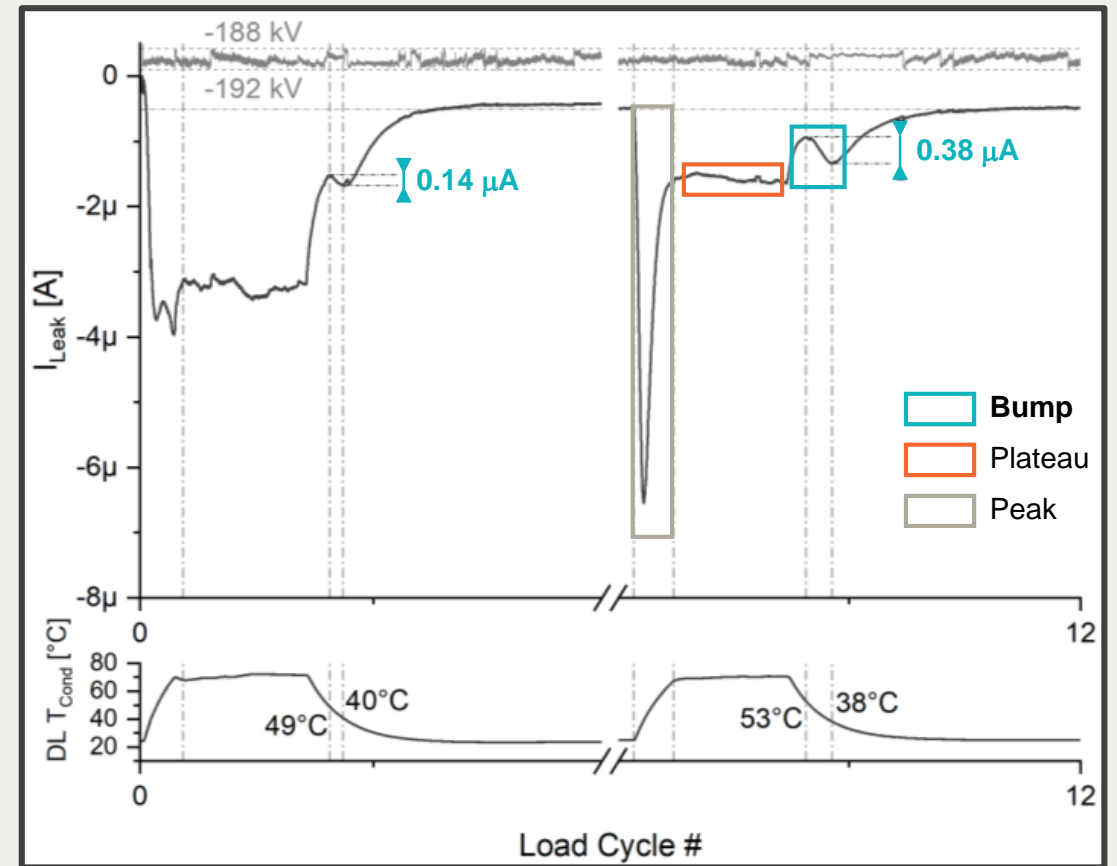
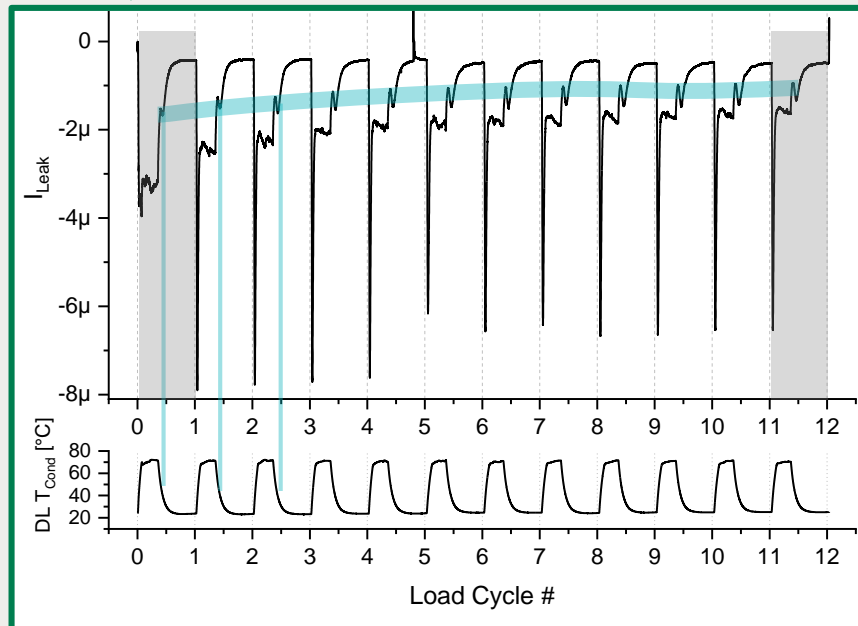
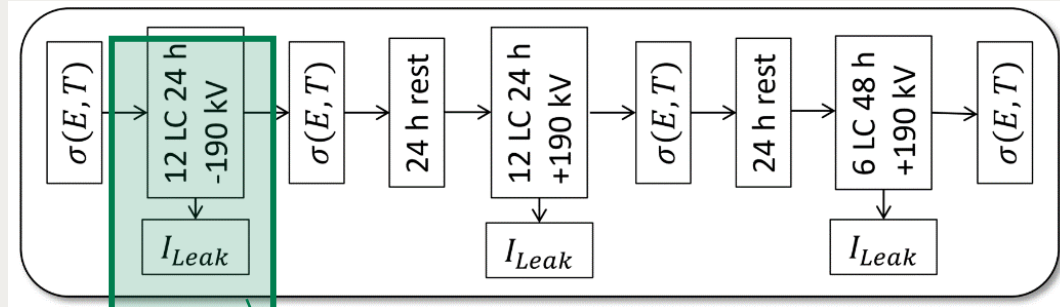
Which other FO applications/implementations can be  
expected in the future?

Martin HENRIKSEN, France

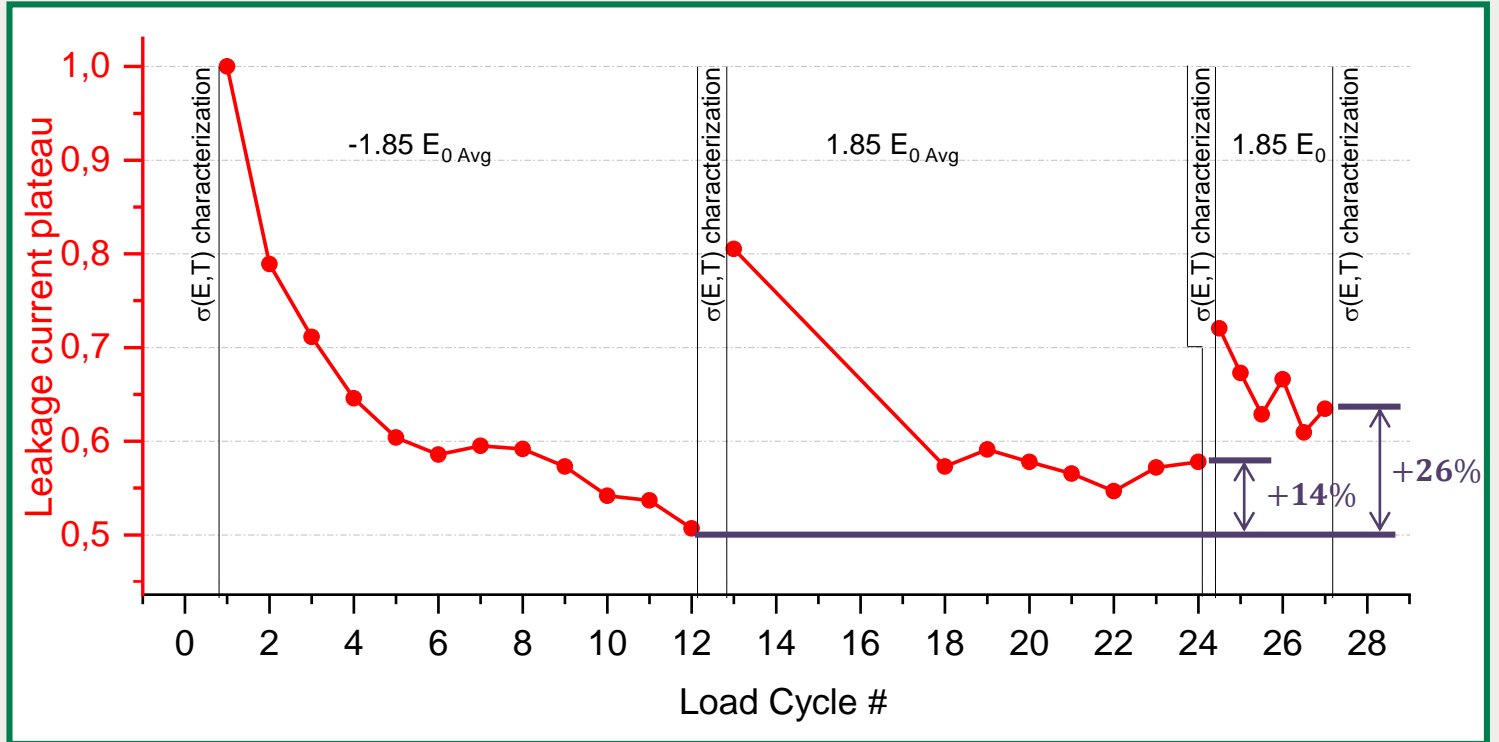
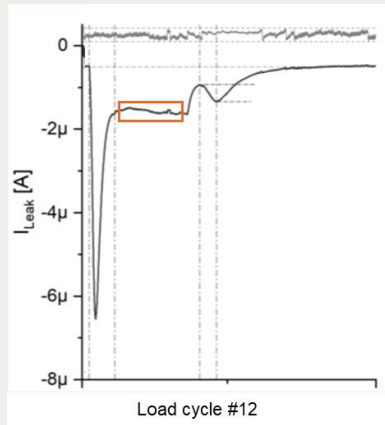
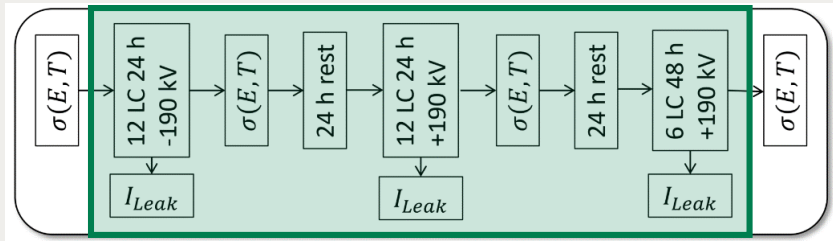


# Evolution of leakage current during load cycles of CIGRE TB 852 type test

Test protocol



# Evolution of leakage current during load cycles of CIGRE TB 852 type test



Leakage current express status of dielectric

→ How to monitor w/out altering screen / ground impedance?

# FO leakage current sensor for DC dielectric monitoring

- How to monitor w/out altering screen / ground impedance?
- Main requirement :
  - High sensibility (0.1 mA)
  - Passive
  - Non-metallic materials

## ➔ Magneto-optical technique

