Narodowe Centrum Badań Jądrowych
National Centre for Nuclear Research
ŚWIERK

# Seminarium Zakładu Energetyki Jądrowej i Analiz Środowiska (UZ3)
## Departament Badań Układów Złożonych (DUZ)

Wtorek: **23.04.2024, godz. 11:30**

**Seminarium hybrydowe:** **sala 172, bud. 39 (Cyfronet, III piętro)**

transmisja online: https://www.gotomeet.me/NCBJmeetings/uz3-and-phd4gen-seminars


## Dipl.-Ing. Thomas Kemmerich
**HBK**


# Efficient data analysis and fatigue life prediction using nCode software


**Abstract**:

NCBJ has a license for Prenscia software, which, in addition to the Reliasoft package, includes nCode tools. The aim of this seminar is to present the possibilities of nCode, which is a package that contains advanced tools unknown to NCBJ users and potentially opening new research opportunities, primarily:

a) tools for simulating the fatigue strength of structures and machine parts, very similar in application to CFD tools,

b) analysis tools for data in various forms and its visualization and processing.


Thomas will show the following examples:

- Glyphworks data analysis philosophy,
- Analysis of measured Load data,
- Using FEM Data to calculate Fatigue and Durability,
- Bearing Fault Detection using measured Acceleration,
- Analyzing the Operational Deflection Shapes of an Helicopter.

Serdecznie zapraszamy
Tomasz Kwiatkowski, Mariusz Dąbrowski

**Bio:**

**Thomas Kemmerich** is a Technical Software Expert at HBK – HOTTINGER, BRÜEL & KJÆR GmbH specializing in Durability and Reliability analysis.
He has a Dipl.-Ing. degree from Fachhochschule Niederrhein, Krefeld and worked before in defence industry at mechanical development department of Krauss-Maffei Wegmann. Before that he worked already for nCode for 7 years and came back to the company, that now owns nCode software in 2016.