

## **2BarG – A program to process split Hopkinson (Kolsky) bar test results**

Tzvi Gershanik      greggersh1409@gmail.com

Itay Levin          itaylevin2704@gmail.com

Daniel Rittel        merittel@technion.ac.il

Materials Mechanics Center, Faculty of Mechanical Engineering, Technion – Israel Institute of Technology, Haifa 3200003, Israel

### **Abstract**

2BarG is a program that analyses Split Hopkinson (Kolsky) Pressure Bar experiments. It is Python-based and features several libraries that make processing fast, simple, and efficient with minimal operator's intervention. The program performs automatic identification of the incident, reflected and transmitted signals from the recorded experimental raw signals. The software reduces the data into stresses, strains, and velocities following the mandatory wave dispersion correction. A user-friendly and intuitive graphic interface allows for straightforward data reduction for various experimental specimens (standard or customized) and testing configurations (tension, compression, and shear).

Permanent link to code/repository used of this code version	<a href="https://github.com/CraZMe/2BarG.git">https://github.com/CraZMe/2BarG.git</a>
Permanent link to executables of this version	<a href="https://rittel.group/downloads">https://rittel.group/downloads</a>