Date: 03.02.2021 Authorized user: Frank Brückerhoff-Plückelmann/

Hendrik Voigt

Work area: Velion Zone Workplace: Room 100.045

Safety Instruction Raith VELION

WWU Münster Nanofabrication Facility (MNF) Center for Soft Nanoscience (SoN) Busso-Peus-Str. 10

	48149 Münster	
	Range of Application	
	Focused Ion Beam and Scanning Electron Microscope	
	Hazard for People and the environment	
	 There can be flammable gases inside the chamber There can be poisonous precursor gases in the chamber There is a high Voltage applied to the machine ~ 35kV High magnetic fields are applied to the column A laser interferometer is used for stage positioning When using the loadlocks there is a crushing hazard Do not handle precursor gases without protective gear Parts of the machine can be very hot e.g. the pumps The Machine uses an lon beam which might cause ionizing radiation Do not trip over the machine and cables 	
	Cofety Management Dules of Debaying	
	Safety Measures and Rules of Behavior	
	 Operating the machine is only allowed after previous instructions and training by the instrument managers Wear protective gear when installing the samples to avoid contamination of the specimen chamber 	
	 Vacuum systems must be purged thoroughly after use of gases in the chamber Persons wearing a cardiac pacemaker or metallic implants must not approach the tool at any time. Make use of the occupational health care 	C C
→ /	 Do not remove the cover of the machine without contacting the instrument managers Handling delicate materials might require wearing full protective gear In case of any unclear issues contact the responsible person Dr. Banafsheh Abasahl 	
	Action in Failure	
	 In case of any malfunction or abnormality leave the machine running, press Shift + Ctrl + Alt + F12 and call the instrument managers 	
	Action in Accident, First Aid	
1	 Inform appointed first aider. Immediately treat small injuries. Enter data in the accident book. In case of severe injuries call an emergency doctor (phone 112). Inform your superior. 	
	Maintenance and Disposal	
	Maintenance work may only be carried out by qualified and instructed staff.	