

# Basel Optomechanics Workshop

Mensa, Department of Physics, University of Basel

Friday, 27.08.2021, 9:00-15:30

<b>Time</b>	<b>Title</b>	<b>Speaker</b>	<b>Group</b>
<b>9:00</b>	Welcome		
<b>9:15</b>	<i>Coherent feedback cooling of a nanomechanical membrane with a spin</i>	<b>Chun Tat (James) Ngai</b>	Treutlein
<b>9:45</b>	<i>Highly sensitive Si<sub>3</sub>N<sub>4</sub> paddle microbridge for torque magnetometry</i>	<b>Mathias Claus</b>	Poggio/Zardo
<b>10:15</b>	Coffee break		
<b>10:45</b>	<i>Optomechanics with nitrogen-vacancy centers in diamond</i>	<b>Patrick Maletinsky</b>	Maletinsky
<b>11:15</b>	<i>Towards hybrid optomechanics with hBN in a fiber-based Fabry-Perot cavity</i>	<b>Thibaud Ruelle/David Jaeger/Francesco Fogliano</b>	Poggio
<b>12:15</b>	Lunch		
<b>13:45</b>	<i>Optomechanics with GaAs mechanical oscillators hosting quantum dots</i>	<b>Nam Nguyen</b>	Warburton
<b>14:15</b>	<i>Optomechanics experiments with soft-clamped SiN membrane oscillators</i>	<b>Manuel Bosch</b>	Treutlein
<b>14:45</b>	<i>Brillouin light scattering spectroscopy: a probe for acoustic phonons</i>	<b>Aswathi Kanjampurath Sivan</b>	Zardo
<b>15:15</b>	Closing		
<b>15:20</b>	Coffee break		