

Preliminary Program for Dagstuhl Seminar 18491:  
 Multidirectional Transformations and Synchronisations

December 2 – December 7, 2018

Version of Dec. 7, 2018

Monday, December 3, 2018

Time	Slot	Comments
9 <sup>00</sup> -10 <sup>30</sup>	<b>Opening</b> (Organizers) <ul style="list-style-type: none"> <li>Welcome</li> <li>Idea of seminar / intended outcome</li> <li>Introduction of participants (2min max. per participant)</li> </ul>	From their places, no slides
10 <sup>30</sup> -11 <sup>00</sup>	Coffee break	
11 <sup>00</sup> -12 <sup>00</sup>	<b>State of the art</b> ( <i>Perdita Stevens</i> )	
12 <sup>15</sup> -13 <sup>30</sup>	Lunch break	
13 <sup>30</sup> -15 <sup>00</sup>	<b>Case studies</b> <ul style="list-style-type: none"> <li>Multidirectional Transformations and Synchronisations: Industrial Case Study: <i>Vadim Zaytsev</i></li> <li>Bringing Harmony to the web: <i>James Cheney</i></li> <li>Student Administration Microservices Synchronised by MX: <i>Albert Zündorf</i></li> <li>Multi-paradigm Modelling for Cyber-physical Systems: <i>Holger Giese</i></li> </ul>	
15 <sup>00</sup> -15 <sup>30</sup>	Coffee break	
15 <sup>30</sup> -17 <sup>30</sup>	<b>Challenges</b> in Multidirectional Transformations and Synchronisations <ol style="list-style-type: none"> <li><b>Group work on position statements</b> (1hour)</li> <li><b>Presentations of position statements</b> (10min per group)</li> </ol>	Come with some ideas already, discuss them with others and align them, and then present them to everybody
Evening	Open for ad hoc meetings and discussions	

Tuesday, December 4, 2018

Time	Slot	Comments
9 <sup>00</sup> -10 <sup>30</sup>	<ul style="list-style-type: none"> <li>• <b>Organisation &amp; Planning</b></li> <li>• <b>Talk: Bx in the large</b> (<i>Perdita Sevens</i>)</li> <li>• <b>Working groups (start)</b> <ol style="list-style-type: none"> <li>1. <b>N-ary relations vs. networks of bx</b></li> <li>2. <b>Partial / refined consistency notions</b></li> <li>3. <b>Semantics of consistency</b></li> <li>4. <b>Composing bx to mx and composing mx</b></li> </ol> </li> </ul>	WG 5: categorical representations of mx (on hold until after Zinovy's talk)
10 <sup>30</sup> -11 <sup>00</sup>	Coffee break	
11 <sup>00</sup> -12 <sup>00</sup>	<b>Working groups (cntd.)</b>	
12 <sup>15</sup> -13 <sup>30</sup>	Lunch break	
13 <sup>30</sup> -15 <sup>00</sup>	<ul style="list-style-type: none"> <li>• <b>Group photo (Stairs in castles garden)</b></li> <li>• <b>Working groups (Plenary session)</b></li> </ul>	
15 <sup>00</sup> -15 <sup>30</sup>	Coffee break	
15 <sup>30</sup> -17 <sup>30</sup>	<ul style="list-style-type: none"> <li>• <b>Discussion of followup working group</b></li> <li>• <b>Working groups (start)</b></li> </ul>	
Evening	Open for ad hoc meetings and discussions	

Wednesday, December 5, 2018

Time	Slot	Comments
9 <sup>00</sup> -10 <sup>30</sup>	<b>Talks</b> <ul style="list-style-type: none"> <li>• <b>Andy Schürr: MGGs</b></li> <li>• <b>Frank Trollmann: Graph Diagrams</b></li> <li>• <b>Zinovy Diskin: multiary delta-lenses</b></li> </ul>	
10 <sup>30</sup> -11 <sup>00</sup>	Coffee break	
11 <sup>00</sup> -12 <sup>00</sup>	Working groups: Plenary (summary)	
12 <sup>15</sup> -13 <sup>30</sup>	Lunch break	
13 <sup>30</sup> -18 <sup>00</sup>	Excursion / hike / etc. <ul style="list-style-type: none"> <li>- Plan: walk / hike (e.g. Burg Dagstuhl)</li> <li>- Write guest book entry</li> </ul>	
Evening	Open for ad hoc meetings and discussions	

Thursday, December 6, 2018

Time	Slot	Comments
9 <sup>00</sup> -10 <sup>30</sup>	<ul style="list-style-type: none"> <li>• Organisation</li> <li>• Talks               <ul style="list-style-type: none"> <li><i>Anthony Anjorin</i>: Description Languages for Consistency Management Scenarios</li> <li><i>Ralf Lämmel</i>: Refactor #multx into refactoring</li> </ul> </li> <li>• Discussion of how to wrap up, do report and work needed for retaining results and for making road map (guided by <i>Vadim Zaytsev</i>);</li> </ul>	
10 <sup>30</sup> -11 <sup>00</sup>	Coffee break	
11 <sup>00</sup> -12 <sup>00</sup>	Working groups (cntd. )	
12 <sup>15</sup> -13 <sup>30</sup>	Lunch break	
13 <sup>30</sup> -15 <sup>00</sup>	Plenary meeting: Points from working groups to note Guided by <i>Vadim Zaytsev</i> ; live wiki notes taken by <i>Perdita Stevens</i>	
15 <sup>00</sup> -15 <sup>30</sup>	Coffee break	
15 <sup>30</sup> -17 <sup>30</sup>	<ul style="list-style-type: none"> <li>• Brief plenary: Planning and sending of working groups</li> <li>• Working groups</li> <li>• 17<sup>00</sup> Plenary: Brief Status report</li> </ul>	
Evening	Open for ad hoc meetings and discussions: create guest book entry and sign guest book	

Friday, December 7, 2018

Time	Slot	Comments
9 <sup>00</sup> -10 <sup>30</sup>	<ul style="list-style-type: none"> <li>• <i>James Cheney</i>: Data Provenance</li> <li>• Plan and schedule for reporting results (<i>Vadim Zaytsev</i>)</li> </ul>	
10 <sup>30</sup> -11 <sup>00</sup>	Coffee break	
11 <sup>00</sup> -12 <sup>00</sup>	Closing session <ul style="list-style-type: none"> <li>• Summary</li> <li>• Next steps</li> </ul>	
12 <sup>15</sup> -13 <sup>30</sup>	Lunch	