### Host Institutions & Topics of Interest

Candidates will select their desired host Institution and corresponding topic of interest from the list provided below. A minimum of 2 hosts in a ranked order should be selected.

<table>
<thead>
<tr>
<th>#</th>
<th>Host institution</th>
<th>Point of contact</th>
<th>Topics</th>
</tr>
</thead>
</table>
| 1  | Thales NL, the Netherlands | Ronny Harmanny | • Radar system and suite related concepts  
• RF front-ends  
• Algorithms, signal and data processing including e.g. machine learning for classification  
• Internship at Delft or Hengelo depending on topic |
| 2  | Rfmicrotech, Italy | Roberto Sorrentino | • Antennas for satellite communication on the move  
• Microwave sensors for localization and detection |
| 3  | TNO, the Netherlands | Laura Anitori | • RF electronics, MMICs  
• Antennas  
• Passive and active filters  
• Radar signal processing  
• Radar concepts & architectures  
• Quantum (radar) sensing  
• Radar system concepts, radar signal processing (detection estimation, imaging, DOA, compressive sensing, …) and waveform design |
| 4  | IEMN Lille, France | Guillaume Ducournau, Kamel Haddadi | • On-wafer S-parameters measurements up to 750GHz: design of calkits and associated calibration procedures  
• Passive and active devices characterizations  
• Measurement of antenna based systems in 140-650 GHz frequency range for mm-wave communication applications  
• V-band RADAR development for vital signals detection. (Master) |
<table>
<thead>
<tr>
<th></th>
<th>Institution</th>
<th>Country</th>
<th>Presenter</th>
<th>Research Areas</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>XLIM</td>
<td>France</td>
<td>Stéphane Bila</td>
<td>RF front-ends, Antennas and antenna arrays, Microwave amplifiers, Microwave filters, RF MEMS, RF nanotechnologies, Additive manufacturing</td>
</tr>
<tr>
<td>6</td>
<td>University of Pavia</td>
<td>Italy</td>
<td>Luca Perregrini</td>
<td>Components and systems in substrate integrated waveguide technology, Additive manufacturing of microwave components, Antennas for telecom and space communication, Numerical methods for analysis and design of passive components, Mm-wave imaging system for medical applications</td>
</tr>
<tr>
<td>7</td>
<td>Ferdinand-Braun-Institute (FBH)</td>
<td>Germany</td>
<td>Wolfgang Heinrich</td>
<td>Microwave Power Amplifiers: Digital Transmitters, Electromagnetic Simulation, On-wafer antenna measurements, On-wafer MIMO measurements, On-wafer mm-wave and THz measurements, Circuit design 100...200 GHz</td>
</tr>
<tr>
<td>8</td>
<td>Fraunhofer FHR</td>
<td>Germany</td>
<td>Peter Knott</td>
<td>3D Radar Imaging, Waveform design with Artificial Intelligence, Forward Scatter Radar, Multi-function sensors and distributed radars, Antenna measurement techniques, Propagation effects</td>
</tr>
</tbody>
</table>