

# Quantum Machine Learning

Bad Honnef Physics School, August 16 – 21, 2026

|               | <i>Sunday<br/>August 16</i>                                  | <i>Monday<br/>August 17</i>                                 | <i>Tuesday<br/>August 18</i>                    | <i>Wednesday<br/>August 19</i>                                     | <i>Thursday<br/>August 20</i>                  | <i>Friday<br/>August 21</i>                              |
|---------------|--------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------|--------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------------|
| 07:30 – 09:00 | Arrival                                                      | Breakfast                                                   |                                                 |                                                                    |                                                |                                                          |
| 09:00 – 10:00 |                                                              | Basic QC<br><b>Jacob Biamonte</b>                           | Basic Deep Learning<br><b>Paul Lukowicz</b>     | ZX Calculus<br><b>Bob Coecke</b>                                   | Tensor Networks in AI<br><b>Dries Sels</b>     | Distributed Quantum Computing<br><b>Michele Amoretti</b> |
| 10:00 – 10:30 |                                                              | Discussion                                                  | Discussion                                      | Discussion                                                         | Discussion                                     | Discussion                                               |
| 10:30         |                                                              | Coffee                                                      |                                                 |                                                                    |                                                |                                                          |
| 11:00 – 12:00 |                                                              | QIT<br><b>Jeannette Lorenz</b>                              | QML/QNN<br><b>Jacob Biamonte</b>                | ZX Calculus Hands-on<br><b>Bob Coecke/ Linnea Grans-Samuelsson</b> | Tensor Network in AI<br><b>Dries Sels</b>      | Quantum Hardware Development<br><b>Max Haeberlein</b>    |
| 12:00 – 12:30 |                                                              | Discussion                                                  | Discussion                                      | Discussion                                                         | Discussion                                     | Discussion                                               |
| 12:30         |                                                              | Lunch                                                       |                                                 |                                                                    |                                                |                                                          |
| 14:00 – 15:00 |                                                              | Hands-on Session<br><b>Iraitz Montalban/ Max Haeberlein</b> | QML on real backends<br><b>Iraitz Montalban</b> | Excursion                                                          | Hands-on Session TN<br><b>Iraitz Montalban</b> | Departure                                                |
| 15:00 – 15:30 |                                                              | Discussion                                                  | Discussion                                      |                                                                    | Discussion                                     |                                                          |
| 15:30         |                                                              | Coffee                                                      |                                                 |                                                                    | Coffee                                         |                                                          |
| 16:00 – 18:30 |                                                              | Poster session                                              | Discussion/ Poster                              |                                                                    | Poster session                                 |                                                          |
| 18:30         | Dinner                                                       |                                                             |                                                 |                                                                    |                                                |                                                          |
| 20:00         | Near Term Error Correction<br><b>Linnea Grans-Samuelsson</b> |                                                             |                                                 |                                                                    |                                                |                                                          |