Report on the outcomes of a Short-Term Scientific Mission[[1]](#footnote-1)

Action number:

Grantee name:

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| **Details of the STSM**  Title:Workshop on functional analysis, operator theory and dynamical systems  Start and end date: 19/09/2022-22/09/2022 |
| **Description of the work carried out during the STSM**  Description of the activities carried out during the STSM. Any deviations from the initial working plan shall also be described in this section. |
| *(max. 500 words)*  Talks, discussions, and work meetings about various topics in operator theory and dynamics. I got a chance to discuss my recent works (study of generalized nodal deficiency on graphs), continue works with several collaborators and hear about topics related to quasi-periodic systems (with the hope of building a working foundation for quasi-periodic quantum graphs). |
| **Description of the STSM main achievements and planned follow-up activities**  Description and assessment of whether the STSM achieved its planned goals and expected outcomes, including specific contribution to Action objective and deliverables, or publications resulting from the STSM. Agreed plans for future follow-up collaborations shall also be described in this section.  *(max. 500 words)*  The STSM has resulted in some useful discussions and observation regarding a recent work on quantum graphs regarding the generalized nodal deficiency, and raised some interesting further directions to explore in this topic which we did not consider before.  It has also encouraged further consideration of quasi-periodic problems on quantum graphs; Many of the participants are interested in quasi periodic systems, so it was a very fruitful environment to consider such problems. We hope to continue exploring this direction with some of the participants from the Potsdam group sometime in the near future. |

1. This report is submitted by the grantee to the Action MC for approval and for claiming payment of the awarded grant. The Grant Awarding Coordinator coordinates the evaluation of this report on behalf of the Action MC and instructs the GH for payment of the Grant. [↑](#footnote-ref-1)