REFEREE REPORT #2:
Grades are:
BT1 - Outstanding
BT2 - Excellent
BT3 - Very good

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AI Detection Report for Scientific excellence of the researchers - BT1: Th...

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Summary

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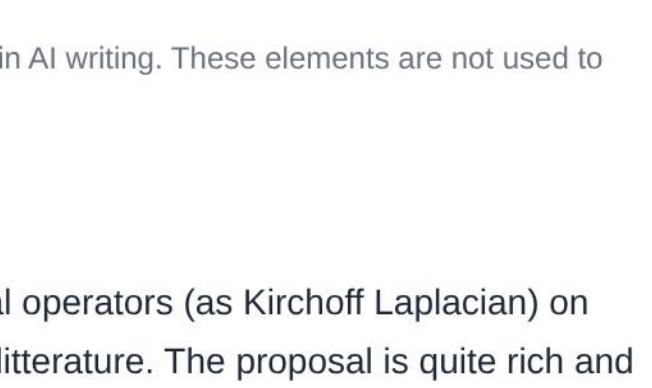
Authorship Progression



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Scientific excellence of the researchers - BT1: The project concerns the study of some differential operators (as Kirchoff Laplacian) on metric graphs, specially in noncompact type graphs situation which is less studied in the current litterature. The proposal is quite rich and ambitious with high expectations. The PI has a very recongnized expertise on the subject with very high level publications in very selective journals (Invent. math., Proc London Math. Soc, Adv. Math., JFA, etc.). He's one of scientific leaders in his field. He got several prizes ans was invited in high impact conferences (8ECM for instance) and have co-organized several international conferences (with very renowned invited speakers). It is clear in my opinion that the PI can conduct this ambitious project and manage the team of investigators involved in the project. The main objectives of the project are closely connected to recent works that the PI published in high impact international journals and this will facilitate the significant advances in the project. The project also involves a strong team that have the experience to collaborate. Some of them are already involved in other submiited projects. Scientific excellence of application - BT2: The presentation of different research challenges is well done with a well-explained and furnished state of art. The different goals of the project (definition, spectral properties, selfadjointness and boundary conditions of operators as the Kirchoff Laplacian, the Sturm Liouville version, Schrödinger operators, and more generally operators generated by semigroups on metric graphs compact as well non compact ones) are very challenging since the current

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literature has not investigated these questions so far in a very competitive area. The proposal is dense and requires new aproaches in particular in the extension of different analytical properties of semigroups in non compact situations. Netherveless, the detailed proposal gives some issues of investigations and ideas to tackle mathematical problems making achievements of goals convincing and also compensating for the lack of precise methodology (in the sense that each research objective precise methodology is not given). It is a pure maths project but applications to some dynamics models in networks derive naturally. Quality and efficiency of the implementation - BT3: The work plan appears effective since the different reserch topics involved in the project are precisely described with ideas how tackling the principal mathematical issues.

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The research team is strong with different and various skills on complex geometry, graph theory, hyperbolic geometry, operators theory making group strategy reliable. I would like to highlight that members of the team have already collaborated fruitfully in some topis related to the project and have joint nice publications. But the descriptions of "subteams" for each research objective are not presented deeply and the part-time involved for each collaborator is just given without explanation whereas several of them are already involved in other projects. Work schedule is only given without explanations. The budget is convincing giving main parts for mobility of collaborators, organisation of conferences (PI has the experience of co-organisation of international events, one with high impact is scheduled in september 2025), dessimination of research results into workshops, summer schools and conferences. The project to create an intern seminar with dedicated platform is a good idea enhancing the diffusion of research activities on topics involved in the project.