Effective 01/30/2023 NSF CURRENT AND PENDING (OTHER) SUPPORT OMB-3145-0058

*Name: Felix A Spanier

ORCID ID (Optional): 0000-0001-6802-4744

*Position Title : Privatdozent

*Organization: Institut für Theoretische Astrophysik, Uni Heidelberg

*Location: Heidelberg, Germany

Certification:

When the individual signs the certification on behalf of themselves, they are certifying that the information is current, accurate, and complete. This includes, but is not limited to, information related to current, pending, and other support (both foreign and domestic) as defined in 42 U.S.C. §§6605. Misrepresentations and/or omissions may be subject to prosecution and liability pursuant to, but not limited to, 18 U.S.C. §§ 287, 1001, 1031 and 31 U.S.C. §§3729-3733 and 3802.

Signature
(Please type out full name): Felix A Spanier Date: 02/17/2023

***Required fields**

Note: NSF has provided 15 project/proposal and 10 in-kind contribution entries for users to populate. Please leave any unused entries blank.

Projects/Proposals Section:

According to 42 U.S.C. §§ 6605, Current and Pending (Other) Support (A) means all resources made available, or expected to be made available, to an individual in support of the individual's research and development efforts, regardless of (i) whether the source of the resource is foreign or domestic; (ii) whether the resource is made available through the entity applying for a research and development award or directly to the individual; or (iii) whether the resource has monetary value; and (B) includes in-kind contributions requiring a commitment of time and directly supporting the individual's research and development efforts, such as the provision of office or laboratory space, equipment, supplies, employees, or students. If the time commitment or dollar value is not readily ascertainable, reasonable estimates should be provided.

Projects/Proposals

1. *Project/Proposal Title : Kinetic Turbulence and Particle Transport in Astrophysical Plasmas

*Status of Support : (•) Current ( ) Pending

Proposal/Award Number (if available): DFG SP1124/9

*Source of Support: Deutsche Forschungsgemeinschaft

*Primary Place of Performance : Heidelberg

*Project/Proposal Start Date (MM/YYYY) : 08/2019

*Project/Proposal End Date (MM/YYYY) : 07/2025

*Total Award Amount : $ 300,000.00

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2023	6.00	4.	
2. 2024	6.00	5.	
3. 2025	6.00		

*Overall Objectives : Study turbulent cascade around and beyond the ion-gyrofrequency, where dispersive effects come into play. Perform multiscale simulations of turbulence using MHD, hybrid and Particle-in-cell methods. Use test-particle analytics to study the transport of energetic particles in this turbulence

*Statement of Potential Overlap : In the course of this project simulation methods for kinetic plasma physics are used, which are one of the main tools for my research. Similar tools are applied in the planned project.

Projects/Proposals

2. *Project/Proposal Title : The Interplay of interplanetary wave generation, turbulent cascading, and particle transport

*Status of Support : (•) Current ( ) Pending

Proposal/Award Number (if available): n/a

*Source of Support: University of Heidelberg

*Primary Place of Performance : Heidelberg/Helsinki

*Project/Proposal Start Date (MM/YYYY) : 01/2023

*Project/Proposal End Date (MM/YYYY) : 12/2024

*Total Award Amount : $ 10,000.00

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2023	0.50	4.	
2. 2024	0.50	5.	
3.			

*Overall Objectives : Study the interplay of wave propagation, wave generation and particle acceleration in the solar wind

*Statement of Potential Overlap : n/a

Projects/Proposals

3. *Project/Proposal Title : New Experimental Techniques For Neutrino Physics (This proposal)

*Status of Support : ○ Current ◉ Pending

Proposal/Award Number (if available):

*Source of Support: MIT (Prime Sponsor NSF)

*Primary Place of Performance : Heidelberg

*Project/Proposal Start Date (MM/YYYY) : 08/2022

*Project/Proposal End Date (MM/YYYY) : 07/2023

*Total Award Amount : $ 22,536.00

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1. 2022	0.01	4.	
2. 2023	0.01	5.	
3.			

*Overall Objectives : Understand the electron spectrum from atomic and molecular interactions, identify a usable plasma model for the electron spectrum, perform simulations to model the plasma potential

*Statement of Potential Overlap : n/a

Projects/Proposals

4. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY) :

*Total Award Amount : $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

Projects/Proposals

5. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY) :

*Total Award Amount : $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

Projects/Proposals

6. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY) :

*Total Award Amount : $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

Projects/Proposals

7. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY) :

*Total Award Amount : $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

Projects/Proposals

8. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY) :

*Total Award Amount : $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

Projects/Proposals

9. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY) :

*Total Award Amount : $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

Projects/Proposals

10. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY):

*Total Award Amount : $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

Projects/Proposals

11. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY) :

*Total Award Amount : $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

Projects/Proposals

12. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY) :

*Total Award Amount : $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

Projects/Proposals

13. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY):

*Total Award Amount : $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

Projects/Proposals

14. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY) :

*Total Award Amount : $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

Projects/Proposals

15. *Project/Proposal Title :

*Status of Support : ○ Current ○ Pending

Proposal/Award Number (if available):

*Source of Support:

*Primary Place of Performance :

*Project/Proposal Start Date (MM/YYYY) :

*Project/Proposal End Date (MM/YYYY) :

*Total Award Amount: $

*Person-Month(s) (or Partial Person-Months) Per Year Committed to the Project

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*Overall Objectives :

*Statement of
Potential Overlap :

In Kind Contributions

*Required fields

In-Kind Contributions Section:

In this section, disclose ALL in-kind contributions related to current and pending support. In-kind contributions include, but are not limited to, office/laboratory space, equipment, supplies, and employee or student resources. See the table entitled, NSF Pre-award and Post-award Disclosures Relating to the Biographical Sketch and Current and Pending Support for instructions on in-kind support for use on the project being proposed.

Please enter your support entries so they are grouped together based on the "Status of Support" and are in the order of Current to Pending from top to bottom.

In Kind Contributions

1.*Status of Support : ○ Current ○ Pending

*In-Kind Contribution Start Date (MM/YYYY) : *In-Kind Contribution End Date (MM/YYYY) :

*Source of Support :

*Summary of In-Kind Contribution :

*Person-Month(s)(or Partial Person-Months) Per Year Associated with the In-Kind Contribution

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*U.S. Dollar Value of In-Kind Contribution: $

*Overall Objectives :

*Statement of
Potential Overlap :

In Kind Contributions

2.*Status of Support : ○ Current ○ Pending

*In-Kind Contribution Start Date (MM/YYYY): *In-Kind Contribution End Date (MM/YYYY) :

*Source of Support :

*Summary of In-Kind Contribution :

*Person-Month(s)(or Partial Person-Months) Per Year Associated with the In-Kind Contribution

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*U.S. Dollar Value of In-Kind Contribution: $

*Overall Objectives :

*Statement of
Potential Overlap :

In Kind Contributions

3.*Status of Support : ○ Current ○ Pending

*In-Kind Contribution Start Date (MM/YYY) :

*In-Kind Contribution End Date (MM/YYYY):

*Source of Support :

*Summary of In-Kind Contribution :

*Person-Month(s)(or Partial Person-Months) Per Year Associated with the In-Kind Contribution

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*U.S. Dollar Value of In-Kind Contribution: $

*Overall Objectives :

*Statement of Potential Overlap :

In Kind Contributions

4.*Status of Support : ○ Current ○ Pending

*In-Kind Contribution End Date(MM/YYYY) :

*In-Kind Contribution End Date (MM/YYYY):

*Source of Support :

*Summary of In-Kind Contribution :

*Person-Month(s)(or Partial Person-Months) Per Year Associated with the In-Kind Contribution

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*U.S. Dollar Value of In-Kind Contribution: $

*Overall Objectives :

*Statement of
Potential Overlap :

In Kind Contributions

5. *Status of Support : ○ Current ○ Pending

*In-Kind Contribution Start Date (MM/YYYY) :

*In-Kind Contribution End Date (MM/YYYY) :

*Source of Support :

*Summary of In-Kind Contribution :

*Person-Month(s)(or Partial Person-Months) Per Year Associated with the In-Kind Contribution

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*U.S. Dollar Value of In-Kind Contribution: $

*Overall Objectives :

*Statement of
Potential Overlap :

In Kind Contributions

6. *Status of Support : ○ Current ○ Pending

*In-Kind Contribution Start Date (MM/YYYY) :

*In-Kind Contribution End Date (MM/YYYY):

*Source of Support :

*Summary of In-Kind Contribution :

*Person-Month(s)(or Partial Person-Months) Per Year Associated with the In-Kind Contribution

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*U.S. Dollar Value of In-Kind Contribution: $

*Overall Objectives :

*Statement of
Potential Overlap :

In Kind Contributions

7. *Status of Support : ○ Current ○ Pending

*In-Kind Contribution Start Date (MM/YYYY):

*In-Kind Contribution End Date (MM/YYYY):

*Source of Support :

*Summary of In-Kind Contribution :

*Person-Month(s)(or Partial Person-Months) Per Year Associated with the In-Kind Contribution

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*U.S. Dollar Value of In-Kind Contribution: $

*Overall Objectives :

*Statement of
Potential Overlap :

In Kind Contributions

8. *Status of Support : ○ Current ○ Pending

*In-Kind Contribution Start Date (MM/YYYY): *In-Kind Contribution End Date (MM/YYYY):

*Source of Support :

*Summary of In-Kind Contribution :

*Person-Month(s)(or Partial Person-Months) Per Year Associated with the In-Kind Contribution

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*U.S. Dollar Value of In-Kind Contribution: $

*Overall Objectives :

*Statement of
Potential Overlap :

In Kind Contributions

9.*Status of Support : ○ Current ○ Pending

*In-Kind Contribution Start Date (MM/YYYY): *In-Kind Contribution End Date (MM/YYYY):

*Source of Support :

*Summary of In-Kind Contribution :

*Person-Month(s)(or Partial Person-Months) Per Year Associated with the In-Kind Contribution

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*U.S. Dollar Value of In-Kind Contribution: $

*Overall Objectives :

*Statement of
Potential Overlap :

In Kind Contributions

10. *Status of Support : ○ Current ○ Pending

*In-Kind Contribution Start Date (MM/YYYY):

*In-Kind Contribution End Date (MM/YYYY):

*Source of Support :

*Summary of In-Kind Contribution :

*Person-Month(s)(or Partial Person-Months) Per Year Associated with the In-Kind Contribution

If the time commitment is not readily ascertainable, reasonable estimates should be provided.

*Year (YYYY)	*Person Months (##.##)	Year (YYYY)	Person Months (##.##)
1.		4.	
2.		5.	
3.			

*U.S. Dollar Value of In-Kind Contribution: $

*Overall Objectives :

*Statement of
Potential Overlap :