

# NF02 White Paper Planning

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Snowmass 2021 NF02 Mini-Workshop  
Sept. 24, 2020

## Contributed Papers

<https://snowmass21.org/submissions>

These pages provide an index to contributed papers submitted to the Snowmass 2021 Proceedings. These papers may include white papers on specific scientific areas, technical articles presenting new results on relevant physics topics, and reasoned expressions of physics priorities, including those related to community involvement. The deadline for a contributed paper is July 31, 2021.

## Instructions for submitting to the Snowmass Proceedings

To submit a paper to the proceedings:

1. Post it on the arXiv in the appropriate subject class. Write in the Comments box of the arXiv submission: "contribution to Snowmass 2021". The paper is strongly encouraged to start with an Executive Summary. A long paper without an Executive Summary will not be effective.
2. Send an email to the proceedings editor Michael Peskin announcing your contribution and asking that it be included in the index above. For interdisciplinary articles, it is permissible to request links on two or more different frontier pages.
  - Email to: mpeskin AT slac.stanford.edu, glennap AT slac.stanford.edu
  - Subject line: "contribution to Snowmass 2021".
3. An alternative method is to fill out the form at

[Submission form](#)

- ▶ NF02-related Contributed/White Paper(s) will form the basis of NF02 contribution (10 -15 pages?) to the Final Neutrino Frontier report and the Final Snowmass report.

# Preliminary Timeline



- ▶ **CPM meeting: October 3-5, 2020:** identify overlap areas, initiate white paper consolidation and coordination.
- ▶ NF white paper kickoff virtual workshop: Nov. or Dec. 2020. TBD: first draft outline of report presented, coordinate NF white papers.
- ▶ **NF white paper previews: February 1, 2021.** Input submitted by this date will be guaranteed consideration for inclusion in the NF report.
- ▶ First draft of NF report: March 1, 2021
- ▶ **Neutrino Frontier Meeting:** March 15-17, 2021
- ▶ Second draft of NF report: May 10, 2021
- ▶ Third draft of NF report: June 15, 2021
- ▶ **Snowmass 2021 in Seattle:** July 11-20, 2021
- ▶ **White paper deadline: July 31, 2021**
- ▶ **Final NF report:** September 1, 2021
- ▶ **Final Snowmass report:** October 1, 2021

# NF02 White Paper Plans



SNAC 2011 Workshop

<https://arxiv.org/abs/1204.5379>

## Light Sterile Neutrinos: A White Paper

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Donini,<sup>31,3</sup> D. Duchesneau,<sup>32</sup> H. Ejiri,<sup>33</sup> S. R. Elliott,<sup>34</sup> J. J. Ernst,<sup>35</sup> A. Esmaili,<sup>36</sup> C. Espinoza,<sup>37</sup> J. J. Evans,<sup>38,39</sup> E. Fernandez-Martinez,<sup>40</sup> E. Figueroa-Feliciano,<sup>23</sup> V. Fischer,<sup>22</sup> B. T. Fleming<sup>a,18</sup> J. A. Formaggio<sup>a,23</sup> D. Franco,<sup>41</sup> G. M. Fuller,<sup>42</sup> J. Gaffiot,<sup>22</sup> R. Gandhi,<sup>43</sup> Y. Gao,<sup>44</sup> G. T. Garvey,<sup>34</sup> V. N. Gavrin,<sup>45</sup> P. Ghoshal,<sup>43</sup> D. Gibin,<sup>46</sup> C. Giunti,<sup>47</sup> S. N. Gninenko,<sup>45</sup> V. V. Gorbachev,<sup>45</sup> D. S. Gorbunov,<sup>45</sup> R. Guenette,<sup>18</sup> A. Guglielmi,<sup>46</sup> F. Halzen,<sup>48,8</sup> J. Hamann,<sup>11</sup> S. Hannestad,<sup>11</sup> W. Haxton,<sup>49,50</sup> K. M. Heeger,<sup>8</sup> R. Henning,<sup>51,52</sup> P. Hernandez,<sup>3</sup> P. Huber<sup>b,16</sup> W. Huelsnitz,<sup>34,53</sup> A. 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- ▶ White Paper on light sterile neutrinos emerging from SNAC 2011 workshop, published in 2012, was an excellent contribution to the Snowmass 2013 process
- ▶ Snowmass 2021 provides an opportunity for NF02 to produce a new White Paper on Light Sterile Neutrinos including knowledge garnered over the last decade
  - This would be the primary NF02 contributed paper
  - More details in following slides
- ▶ Also plan to collaborate on, support, and coordinate submission of other contributed papers with lead proponents/authors
  - Ideally converge on list of contributed papers by Nov./Dec. 2020



# White Paper Skeleton



<https://www.overleaf.com/read/wyfsfbkxbvrh>

WHITE PAPER ON LIGHT STERILE NEUTRINO SEARCHES AND RELATED PHENOMENOLOGY	
NF02 CONTRIBUTED PAPER TO SNOWMASS 2021	
G. KARAGIORGI <sup>*1</sup> , B. LITTLEJOHN <sup>*2</sup> , P. MACHADO <sup>*3</sup> , A. SOUSA <sup>*4</sup> , AND OTHER AUTHORS <sup>5</sup>	
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CONTENTS	
<b>Executive Summary</b>	
This is the Executive Summary	
White Paper on Light Sterile Neutrino Searches	Snowmass 2021

- ▶ Discuss table of contents for remainder of this session
- ▶ Will solicit nominations in coming weeks to take on editorial ownership of White Paper sections

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# White Paper Detailed TOC



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