

Solar Fusion Cross Sections III

26-29 July 2022

David Brower Center and UC Berkeley, Berkeley, CA, USA

D. Bemmerer, A. Guglielmetti, W. Haxton, A. Serenelli

<https://www.int.washington.edu/programs-and-workshops/22-82w>

<https://indico.ice.csic.es/event/30/overview>

PROGRAM COORDINATOR

Megan Baunsgard

Institute for Nuclear Theory

mjb47@uw.edu

Laura Fantone

N3AS

lfantone@berkeley.edu

Working groups 1-5

* WG1 - S_{11} [$^1\text{H}(p, e^+ \nu)^2\text{H}$] and theory, extrapolations, radiative corrections, electron capture, neutrino spectra

Conveners: L. Marcucci (Univ. Pisa), J.-W. Chen (Natl. Univ. Taiwan)

* WG2 - Solar neutrino observations, helioseismology, asteroseismology

Conveners: F. Villante (Univ. L'Aquila), A. Serenelli (ICE), H. Robertson (Univ. Washington)

* WG3 - S_{114} [$^{14}\text{N}(p, \gamma)^{15}\text{O}$]

Conveners: R. James deBoer (Notre Dame U.), Tamás Szücs (ATOMKI)

* WG4 - S_{12} [$^2\text{H}(p, \gamma)^3\text{He}$]

Conveners: F. Cavanna (INFN Torino)

* WG5 - S_{17} [$^7\text{Be}(p, \gamma)^8\text{B}$]

Conveners: L. Gialanella (Univ. Studi Campania)

Working groups 6-9

* WG6 - S_{112} [$^{12}\text{C}(p, \gamma)^{13}\text{N}$], other CNO, NeNa

Conveners: R. Depalo (Univ. Milano), Ch. Iliadis (Univ. North Carolina)

* WG7 - S_{34} [$^3\text{He}(^4\text{He}, \gamma)^7\text{Be}$] and S_{33} [$^3\text{He}(^3\text{He}, 2p)^4\text{He}$]

Conveners: D. Bemmerer (HZDR), K. Nollett (San Diego State)

* WG8 - New facilities: LUNA-MV, JUNA, NIF, etc

Conveners: M. Aliotta (Univ. Edinburgh), M. Wiescher (Notre Dame Univ.)

* WG9 - Opacity, screening

Conveners: T. Nagayama (Sandia), J. Colgan (Los Alamos), B. Balantekin (UW-Madison)

Schedule of the workshop

SF3 goals

30' WG overviews (by conveners or delegated person)

2h + 2.5h WG sessions (in parallel)

Poster session

20' WG summaries (by conveners)

Wrap up, RMP plan

	Tue 26/07	Wed 27/07	Thu 28/07	Fri 29/07		
Morning 8:30-11:30	SF3 goals	WGs E, F, G, H, I overviews	WG A	WG B	WG C	WG A-I summaries
	WGs A,B,C,D overviews					
Afternoon 13-17:30	WG A	WG D	WG D	WG D	WG E	WG F
	Poster session	WG G	WG E	WG G	WG H	WG I

Suggestions for conveners

1. Prepare the 30' overview talk of their working group and give the presentation (or delegate this task to a WG member)
2. Lead the discussions during the WG parallel session and take notes
3. Hold the 20' summary talk at the end of the workshop
4. Lead the writing of the RMP section on their working group in the second half of 2022

Overall aims

1. Consensus view of the community
2. Inclusive of all groups and viewpoints
3. In exceptional cases where no consensus can be achieved, the conveners will be generally trusted

If possible (i.e. when the final list of participants and their preferences for WGs will be defined) conveners may organize a preliminary zoom meeting of their WG

Practical infos- 1

- All participants should be present for the entire meeting in person
- Arrive on Monday (25 July), depart on Friday afternoon (29 July).
- Every participant can take part in up to three working groups. Less than three is also okay.
- Recommended: San Francisco International Airport, + 1 hour BART train to downtown Berkeley.

- Hotel cost (200 USD/day) for 4 nights will be covered by N3AS (Wick Haxton, Laura Fantone) if necessary
- Estimated number of supported participants 40-50;
- Rent for rooms, coffee breaks will be covered by N3AS.
- Travel expenses should be covered by participants' institutions

- Plenary sessions at the David Bower center, parallel sessions at the UC physics department, at walking distance

Practical infos- 2

- Registration has closed on June 4th: there are 52 registered people
- Selection of supported participants is underway: every participant should soon receive an email asking if financial support is mandatory or not and asking final confirmation of participation in person
- Final list of confirmed participants will be made available to conveners as soon as possible (end of June)