



MINCE
Measuring at Intermediate metallicity Neutron Capture Elements
Minutes of meeting 28/06/2022

September 9, 2022
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MINCE

ABSTRACT

Minutes of the meeting of 09/05/2022 at Osservatorio Astronomico di Trieste (Virtual)

Authors	G. Cescutti	
Owner	G. Cescutti	01/08/2022
Verified by	P. di Marcantonio	12/05/2022
Approved by	P. Bonifacio	12/05/2022



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1 INTRODUCTION

The meeting took online on 28/06/2022 14:20. Present 13 persons (to be checked based on memory and indico subscr.)

Andreas Korn Uppsala (AK) University

Arunas Kunciskas (ArK) Vilnius University

Camilla Hansen (CH) Goethe University Frankfurt, Institute for Applied Physics

Elisabetta Caffau (EC) GEPI, Observatoire de Paris, Universite' PSL, CNRS

Emanuele Spitoni (ES) Observatoire de la Cte d'Azur, Nice (France)

Francesca Lucertini (FL) ESO, Vitacura, Santiago, Chile /UNAB

Gabriele Cescutti (GC) Istituto Nazionale di Astrofisica (INAF)

Mariagrazia Franchini (MF) INAF - Osservatorio Astronomico di Trieste (Italy)

Marica Valentini (MV) Leibniz Institut f ur Astrophysik (AIP)

Patrick François (PF) GEPI, Observatoire de Paris, Universite' PSL, CNRS

Piercarlo Bonifacio (PB) GEPI, Observatoire de Paris, Universite' PSL, CNRS

Raphaela Melo (RM) Goethe University Vidas Dobrovolskas (VD) Vilnius University

More members (not present) and their abbreviations: Alessio Mucciarelli (AM) DIFA-UNIBO

Aroa del Mar Matas Pinto GEPI, Observatoire de Paris, Universite' PSL, CNRS

Jonas Klevas (JK) Vilnius University

Laura Magrini (LaM) INAF Osservatorio Astrofisico di Arcetri

Linda Lombardo (LL) GEPI, Observatoire de Paris, Universite' PSL, CNRS

Lorenzo Monaco (LM) UNAB

Paolo Di Marcantonio (PM) Istituto Nazionale di Astrofisica (INAF)



2 STATUS of the OBSERVATIONS

No News

(“Given the poor seeing/transparency/high winds throughout, we probably managed to get 30% of what we had planned. So 5 out of 16 stars. We will reapply through ChETEC-INFRA TNA.”)

3 SUMMARY OF DEADLINES FOR OBSERVATION PROPOSALS

PAPER I submitted before keep going with new submission. Exceptions has been the ChETEC INFRA proposal (AK) and the proposal at the 2.2m (CH)

ArK also willing to submit to MOA a new proposals by the end of July.

4 PAPERS

We aim to finalise and submit PAPER I ASAP and move on on PAPER II on NC elements.

- Update WRT Paper I Mostly done, last checks and submission (submission on the 15th of J)
- Paper II PF et al. Chemical abundances Ga-U for stars in Paper I. First results presented by PF, quite impressing, compared the PDF document at the MINCEting 3 indico web site:
- Paper III LM and FL al. (Mike + UVES data) first results expected in summer (planned a visit to Paris and Trieste)
- Paper IV CH FEROS data started to work on the data (PhD student involved)
- Paper V (ArK) et al Moletai data. about 20 with enough quality, around 30 in total.

5 DATABASE

No News (focus of the next meeting together with PAPER II)

6 ACTIONS

At the end of the meeting the following general actions are agreed upon

1. GC: write minutes of meeting



2. GC: prepare a sample for MOA
3. all: evaluate new possible selections based on GAIA DR3
4. PF: check the Sr abundances in the sample

At the end of the meeting the following actions connected to PAPER I are agreed upon

1. GC: finalise the paper and submit (done on the 15th of July)

7 ACTIONS previous meeting

Meeting May 2022

1. GC: prepare a sample for 2.2m (closed)
2. GC: prepare the proposal for the next ChETEC-INFRA deadline (closed)
3. PF: prepare some plots of the results for nc elements (slides for next meeting)(done)
4. Laura M. compute abundances for TNG sample (thin disc stars included) with the stellar param determined by Paris (open)
5. GC: update the text of the paper according to the new dynamical results (closed)
6. GC: add the section for sulphur (closed)
7. GC: prepare new plots without Ishigaki (apart an element or 2) (closed)
8. PB (+XX): read the paper pre submission (closed)
9. PB: homogenize tables and remove stars not analyzed (closed)
 1. PB: cross check of the binary dabatase (Gaia) and sample paper I (closed)
 2. PB: inform CH on the 2 possible binaries (+ other from cross check?) (closed)
 3. GC: pass the full sample at the present date to MV for possible asterosismology targets (closed)
 4. PB: pass the known Kepler stars spectra to MV (closed)
 5. PF: finalise the analysis of the nc elements sample (open)
 6. LM: working on the ESO UVES + MIKE sample with FL (open)



7. ArK: pass VUES spectra to Paris to run mygisos on the spectra collected with the parameters determined by PB (open)
8. CH: work with a new PhD student on the 150 spectra + request more targets for FEROS (goal 200 targets). Not sure about the parameters for the already taken stars (open)
9. LM: write the section on the dynamics (using the RV obtained with MINCE spectra) of the stars and the subdivision of the stars into hao substructures (closed)
10. GC: change the plots color coding following the substructures (closed)
11. GC: sent to Alessio the color coded version with Na and Mg(?) (closed)
12. GC (not discussed): update the database with the new Sc measurements (to be changed the table!)
13. CH: find two stars in paper I with parameters similar to her PEPSI sample for which NLTE is available for many elements and write the results in the paper (closed)

Meeting April 2021

1. PB: verify PF has the material for paper II (closed)
2. GC: organise an All-Hands virtual Meeting (closed)
3. GC: prepare the scheme for the database (closed)
4. GC: write minutes of meeting (closed)
5. GC: finalised Paper I (closed)
6. LOGO (closed)

Meeting November 2020

1. PB: ask L. Monaco to compute orbital parameters for MINCE targets (closed)
2. GC: organise an All-Hands virtual Meeting (closed)
3. GC: talk to C. Knapic for a web-base collaborative platform (open)
4. PB: write minutes of meeting (closed)
5. PB: prepare a draft of documentation management plan, document template and organigram (closed)
6. EC: analyse SOPHIE observations with A.d.M. Matas Pinto (closed)
7. ALL: think about a logo for MINCE (closed)



8 NEXT MEETINGS

proposal: keep same day of the week of the current meeting (Tuesday at 14:30 CEST)
next meeting: 13 September 2022.