



MINCE
Measuring at Intermediate metallicity Neutron Capture Elements
Minutes of meeting 09/05/2022

May 16, 2022
MINCE_MAN_003
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ABSTRACT

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

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1 INTRODUCTION

The meeting took online on 06/04/2022 14:20. Present 18 persons:

Alessio Mucciarelli (AM) DIFA-UNIBO

Aroa del Mar Matas Pinto 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)

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

Laura Magrini (LaM) INAF Osservatorio Astrofisico di Arcetri

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

Lorenzo Monaco (LM) UNAB

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

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

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

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

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

More members (not present) and their abbreviations: Andreas Korn Uppsala (AK) University

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

Jonas Klevas (JK) Vilnius University

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



2 STATUS of the OBSERVATIONS

Reported by AK to GC: 3 nights done at NOT last 16-18 April within the ChETEC INFRA frame work, bad seeing few (5) targets taken with sufficient quality (“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 will be the ChETEC INFRA proposal (AK) and the proposal at the 2.2m (CH)

Targets selection for future will use Gaia DR3 catalogue and most likely we will update the present sample.

4 PAPERS

We aim to finalise and submit PAPER I before the GAIA DR3 release

Using Laura M. code to double check the results. Eq. width method (MOOG), as for GAIA-ESO, results quite similar to the one obtained by Pier and Elis. Didnt expect that this will work at so low metallicity and temperature. Some problem, (Ba), but in general the agreement is good.

- Update WRT Paper I It includes now the discussion on kinematics and substructures (LM), also comparison with outcome by MF is OK!
CH has also added the section including a table with the NLTE corrections!
- Paper II PF et al. Chemical abundances Ga-U for stars in Paper I. analysis going on (preliminary results next meeting)
- Paper III LM and FL al. (Mike + UVES data) first results expected in summer
- 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 if paper I submitted)



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 2.2m
3. GC: prepare the proposal for the next ChETEC-INFRA deadline
4. PF: prepare some plots of the results for nc elements (slides for next meeting)
5. Laura M. compute abundances for TNG sample (thin disc stars included) with the stellar param determined by Paris

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

1. GC: update the text of the paper according to the new dynamical results
2. GC: add the section for sulphur
3. GC: prepare new plots without Ishigaki (apart an element or 2)
4. PB (+XX): read the paper pre submission
5. PB: homogenize tables and remove stars not analyzed

7 ACTIONS previous meeting

Meeting April 2022

1. PB: cross check of the binary dabatase (Gaia) and sample paper I (on going)
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)



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8 NEXT MEETINGS

proposal: keep same day of the week of the current meeting (Tuesday at 14:30 CEST)
next meeting: 28 June 2022.