

SEARCHING NEW PARADIGMS ON MATHEMATICS TEACHER EDUCATION RESEARCH AND CLASSROOM MATHEMATICS ASSESSMENT

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Short description of the DG: organizers, aims and underlying ideas

This discussion is proposal by some members of the SIGMA-t Group – an interinstitutional net of Brazilian researchers seek Mathematics Education research and development based on theoretical frame of the Model of Semantic Field (MSF) by Lins. Dr João Pedro Antunes de Paulo, Substitute Teacher of Federal Institute Catarinense. The aim of his research is understand the producing of MSF and what would be propose like a teacher education program in line with this theoretical model. Dra. Regina Ehlers Bathelt, Adjunct Teacher of Santa Maria Federal University, has seeking out “think outside the box” searching ways to read and understand theoretical-didactic models of mathematics education with implications to different curriculum production, use and evaluation of didactical materials and resources both, to mathematics teacher education’ courses, and mathematics classrooms (primary and secondary schools). We intends congregate the community members of Mathematics Education who want discuss paradigms on mathematics teacher education and mathematics classroom assessment research, both “on the fly” actions of teaching and learning process. So, thinking mathematic’ classrooms how do we make decisions on real didactical actions? What change in the classroom didactical actions world if we operate one or another theoretical world? During DG different theoretical worlds emerges and a reading of classroom situations produced. This “a read” highlight the difference among didactical actions supported by MSF and the counterparts presented. We hope at the end, the participants will be able to read in MSF another theoretical tool, especially productive to analyze the Mathematics classroom teaching-learning processes.

Planned structure (21:30 – 23:00, July 14):

Planned timeline	Planned activity	Working format /Responsible person
Planned timeline of the first meeting	Topic	Material / Working format / responsible person
21:30 – 21:50 (20’)	Introduction	The organizers will introduce their selves and presenting the general idea of DG. The attendants will presenting their selves

21:50 – 22:10 (20')	Different Theoretical Frames/different mathematics education worlds – RME, DST, MSF and DTT	Regina Ehlers Bathelt Mathematics class episodes: Telling stories/ pedagogical discussion
22:10 – 22:25 (15')	Curricular proposal for teacher education/ Guidelines from MSF	João Pedro Antunes de Paulo Proposal analysis
22:25 – 22:55 (30')	Discussion Group	Curriculum and differences: mathematics teacher education and evaluation on mathematics classroom.
22:55 – 23:00 (5')	Closing remarks	Questions to further research

Venue requirement:

This DG will be hold in online format and the attendants will have to use your own computer and headphones.