SUMMER SCHOOL, FIRST PART: INTRODUCTION TO GEOMETRIC (CLIFFORD) ALGEBRA

Timetable

Time	August 1st	2nd	3rd
9:00 – 9:30	JOSE, MARIUS, PANACKAL: Welcome, mathematical introduction.	RAMON Applications of Clifford algebra to Euclidean plane and space geometry. 9:00 – 10:00	RAFAL: Practical session (lab). 9:00 – 10:00
9:30 – 11:00	JOSE: Basics of Clifford algebra, 3-D, 4-D, aA, a^A ...	NIKOLAY: More on Clifford algebra. 10:00 – 11:00	NIKOLAY: On Dirac's equation. 10:00-11:00
11:00 – 11:30	Break	Break	Break
11:30 – 12:30	NIKOLAY: Introduction to Clifford algebra in *n*-dimension.	JOSE : More on Clifford algebra.	RAMON: Applications of Clifford algebra to spherical, hyperbolic and Lobachevsky's geometries.
12:30 – 13:30	RAFAL: tutorial on CLIFFORD package.	RAMON: Exterior calculus.	JOSE: Bridge to the Kähler calculus.
13:30 – 15:30	Lunch	Lunch	Lunch
15:30 – 16:30	RAFAL: tutorial on CLIFFORD package.	RAFAL: Practical session (lab).	RAFAL: Matrices and spinors.
16: 30 – 17:30	RAFAL: Practical Session (lab).	RAFAL: Practical session (lab).	ALL THE TEACHERS: Responding to questions about all the material.