3 Lie algebra

The Lie algebra is discussed first in section 2.3, for K, and in section 2.4, for N. In section 3.1 is a discussion for the whole group SU(2,1).

Here we discuss the Lie algebra elements and routines for the Lie groep bracket directly in the context of the group G.

- 3a. Real Lie algebra
- 3b. Basis for the complex Lie algebra
- 3c. Check of exponentiation map
- 3d. Cartan subalgebras
- 3e. Universal enveloping algebra, routines
- 3f. Casimir element of K_0
- 3g. Center of the enveloping algebra
- 3h. Iwasawa decomposition