Stefan Papadima (Stefan.Papadima@imar.ro), Institute of Mathematics of the Academy, 70700 Bucharest, Romania, and Alexander I. Suciu* (alexsuciu@ne Department of Mathematics, Northeastern University, Boston, MA 02115. Chen I combinatorics of arrangements.

Using Malcev completion techniques, we show that the rational Chen Lie algebra of the fundamer complement of a complex hyperplane arrangement is isomorphic to the rational holonomy Lie algebra of modulo the second derived subalgebra. Consequently, the rational Chen Lie algebra is combinatorially also show that the Hilbert series of this (graded) Lie algebra is determined by the Hilbert series of the line invariant of the arrangement, viewed as a module over the polynomial ring in variables corresponding to