lopics in spherical stochastic geometry. Det. Hyperplane: Hy= {x=R": <x, 4>=0}, u ∈ \$"-1 Halfspace Hu = ExeR": <x, u > ≤03. Come $C = \bigcap_{i=1}^{m} H_{u_{i-1}}^{-} u_{v_{i-1}} u_{w_{i}} \in \mathbb{S}^{u_{-1}}.$ Spherically convex set: COSu-3 Equiv. Def of cone: $C = pos(v_1,...,v_k) = \{\sum_{i=1}^{n} \lambda_i v_i : \lambda_i \ge 0\}$ Ex. Weyl chamers: of type A: Wh = {x12...2 In }. of type B: W" = {x12 ... 2 x12 0} Ex Orthant: R+= {xi20: 4i=1,-,n}. Def. Let CCR cone. Projection on C: $\Pi_c: \mathbb{R}^n \to \mathbb{C}$ $\Pi_c(x) = \operatorname{arguin} \|x - y\|$ E_{x} XEC: $\prod_{c}(x) = x$. Def. Couic intrinsic volumes of C: UK (C) = P[Tc(U)

robint of some k-dim face of C] UN Wif (Su-1). K=0,..., N. $\frac{R_{\text{em}}}{\sum_{k}} \mathcal{O}_{k}(C) = 1 \qquad \mathcal{O}_{k}(C) \geq 0.$ Ex. C= Lj = lin. subspace of dim j. $O_{K}(Lj) =$ Ex C= R+. Let (S1, -, Sh) be s.t. Gauss on R" Tc (31, -, 3n) = (Si 1 820) =1 Is, ..., In 20 K-dim face: It >0, ..., It >0, all other are =0. $\mathcal{J}_{K}(\mathbb{R}_{+}^{n}) = \frac{1}{2^{n}} \begin{pmatrix} N \\ K \end{pmatrix} , K=0,...,N.$ Bun (4, 42)



