TDB Stores Localization (New Substitution)

stores camera matrix 21 FEB 2023 min & | YK- M = IFK | Z Vectorize T: TPK = (PK I) D (E) min ZII JK - MPK ETPK II 2 PK t Il new substitution: $t = \frac{t}{e_3 P_K t}$ min 2 | | wo xk - M P x t x || 2 homog. S.t. $(\forall k)$ \underline{t}_{k} \underline{t}_{k} 6 rostation constraints site; = si; + 1 to make lost element a 1) redundant constraints: (+k) $tt_{k}^{T} = t_{k}t^{T}$ all of t, tr are parallel

 $(\forall k, \ell) = \pm_{k} \pm_{k}$ $(\forall k, \ell) = \pm_{\ell} \pm_{\ell} \pm_{k}$ (more like Sine-line Mate > (+k) 23 Pk tk Wo = Wo = (=1)

(ambine substitution w/ rotation constraint) snews

(Hk,i) tr (A; txt T) = bi ez Txt wo

news (4 K, l,i) tr (A; tktet) = bi ez Pktt Petez are there more?

comments!

- The substitution produces 13 variables por landmark instead of 3
- there seem to be a lot more redondant constraints including the important cross-coupling botween 'k' and 'l' variables
- substitution is more similar to Fine-line and teaser