Joint Probability Data Association

- · t number of trockers, in number of valid measurements (that are in the policy
 - · age is the event that measurement I is disproted from target t.
 - . Quis the point event of The for in t brockers and in measurements. U one of the possibilities the trockers can be associated with measurements.

_ If viry farametric JPDA

=)
$$P[Q | 2^2] = \frac{1}{C_2} \prod (\lambda^{-1} f_{ty}[z_{j}|z_{j}])^{\frac{1}{2}} \prod (P_{0}^{t})^{\frac{1-\delta t}{2}}$$

Is i just a sinory number showing that measurement. I is associated with a torget in event Q hinfact one should show it like this - 5(a)

to: is me index of the target to which measurement I is associated in the event consideration.

St: if topes t is associated with a measurement (a snow number)

PD: target & detection probability

h: Spokal donsing h of the folse moos-remembs

before using the values P(Q, 22), normalize them I since they all have Cz = P[Q |22] = P[Q |22)

5 P(Q(2E)

$$= \int_{\mathbb{R}^{2}} |B_{jt}| = |P(Q_{jt}|2^{t}) = \sum_{q \in Q_{jt} \in Q} |P(Q_{jt}|2^{t})$$

The ortions of the "Jointh offortion"

use it in the Idora ossopohen files (PDAF)

Using BJE as Bi for larger t, when i = J

BJE: Bi = Prosobility that measurement i is associated with the target t.

(Association)

Note met Bo: Propositing that larger t is not associated with any measurements.

= updok equotions

$$\sqrt{\frac{1}{2}(212)} = \frac{1}{2}(212-1) + W(2) \times (2)$$

$$\sqrt{\frac{1}{2}(212-1)} + W(2)$$

$$\sqrt$$