```
output: Re-formed, single hypothesis tracks, each comprising existence probability r^i_{t|t}, state estimate \bar{x}^i_{t|t}, and covariance \mathbf{P}^i_{t|t}.

1 Generate legacy (missed detection) tracks

2 for i \in \{1,\dots,n_{t|t-1}\} do

3 \mid r^i_{t|t} := \tilde{p}^i(0)r^{i,0}_{t|t}; \ \bar{x}^i_{t|t} := \bar{x}^{i,0}_{t|t}; \ \mathbf{P}^i_{t|t} := \mathbf{P}^{i,0}_{t|t}

4 end
```

5 Generate updated tracks for each measurement

6 for  $j \in \{1, ..., m_t\}$  do

algorithm, marginal probability estimates  $\tilde{p}^i(a)$ .

**input**: Tracks updated using component update