Figure 8: Layer and local buffer access at the $l$th layer profile: The propagation direction of the message is denoted as vector $\Delta$.

scheme, the number of propagation directions to be stored at the buffer are described at the store($\Delta$) part in Table 2.

From the definition in Eq. (16) and (15), the number of nodes is $LM$ for both $Q(p_0 - 2)$ and $Q(p_0 - 1)$ and $M$ for $Q(p_0 - (l - 1), l - 1)$. Table 2 shows the required number of messages and data costs at each node. The number of states is $S$ and the number of bits for the message cost and data cost is $B_m$ and $B_D$ respectively. Then, by multiplying all the parts, we can calculate the memory size of the buffer as shown in Table 3.