

=> # parans Remain Small

size

irrespective of the Image

Surmary of Notation DX In layer "l" of CNN + [1] = filter size in layer L

Height of
$$N_{H} = \left[\frac{N_{H}^{[l-1]} + 2p^{[l]} + 1}{5^{[l]}} + 1 \right]$$

(5) Width of
$$N_{W} = \left[N_{W} + 2p^{(1)} - f^{(1)} + 1 \right]$$
output of $N_{W} = \left[N_{W} + 2p^{(1)} - f^{(1)} + 1 \right]$

Filter dimension

F(1) X f(1) X NC This must match # channels of input

Activation dimension

$$a^{(i)} = g(Z^{(i)})$$

$$Z^{(i)} = \text{output at } (^{th} \text{ layer})$$

$$Z^{(i)} = \text{output$$