NEIGHBOR DISCOVERY
New Function in ICMP

→ It substitutes ARP
→ Based on multicast
  → Most likely only one station gets involved
Solicited Node Multicast Address

→ Subscribed by all hosts

→ FF02::1:FF/104 | 24 least significant bits of IP address

→ Likely 1 host per group
IPv6 Multicast Transmission

→ Based on MAC multicast
→ IPv2 multicast address mapped to MAC address
→ 33-33 | 4 least significant bytes of IPv6 address
Address Resolution

→ ICMP Neighbor Solicitation
→ To solicited node
  multicast address
  of target IPv6 address

→ ICMP Neighbor Advertisement
→ To requester address
Host Cache

→ Mapping between IPv6 and MAC address

→ Similar to ARP cache