```
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                                            Observer.vhd
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LIBRARY ieee;
USE ieee.std_logic_1164.all;
use IEEE.NUMERIC STD.ALL;
entity observer is
generic (
 observernumber:unsigned(15 downto 0):=x"0001" -- how many observer are instan
tiated
port (
  clk :in std_logic;
reset :in std_logic;
enable_in :in std_logic;
invariance_tau :in std_logic_vector(7 downto 0);
signal_phi :in std_logic;
  output : out std_logic;
  enable_out :out std_logic
  );
end entity;
```