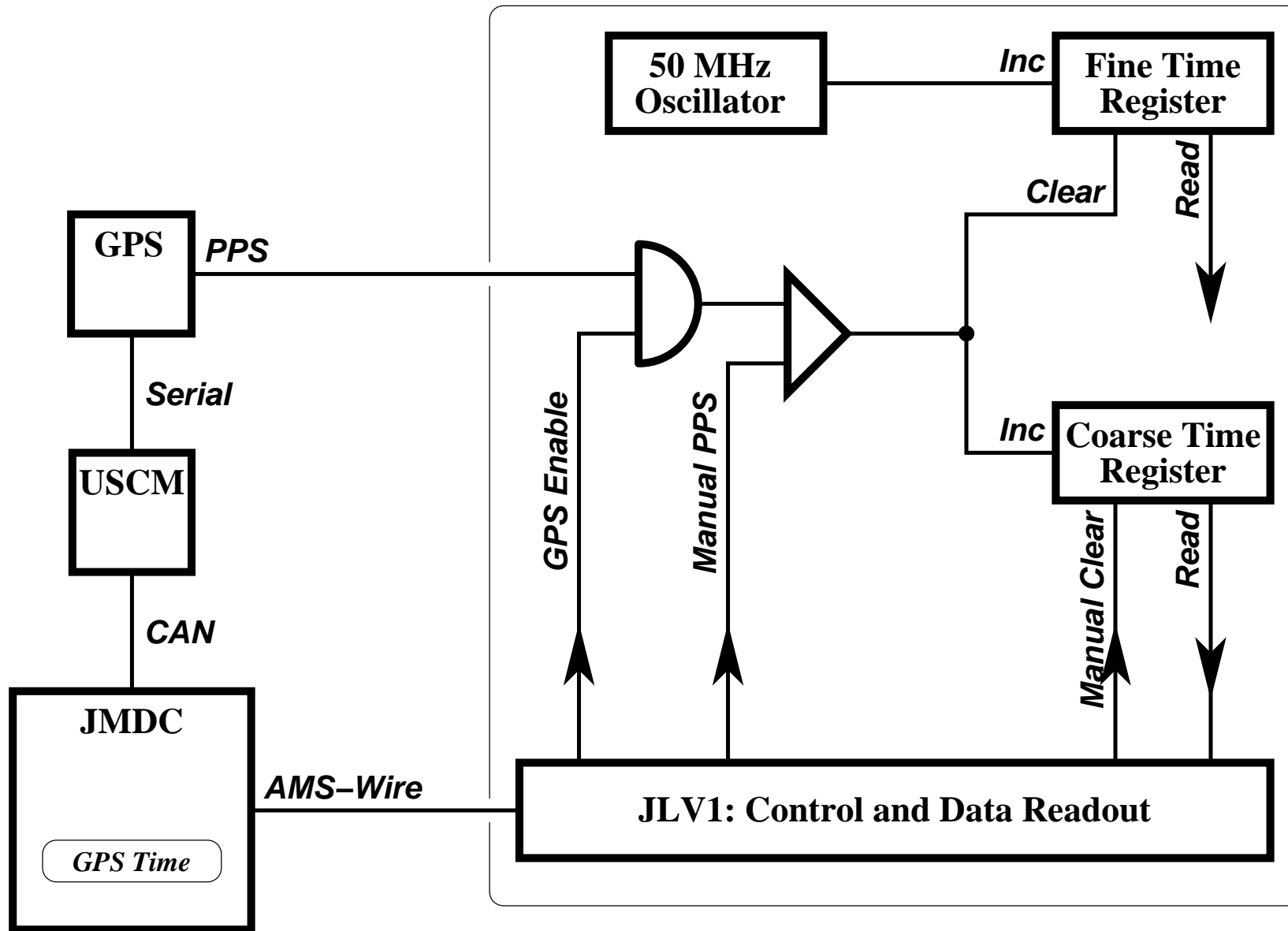


**A.Lebedev**  
**MIT**

# **GPS in AMS-02**

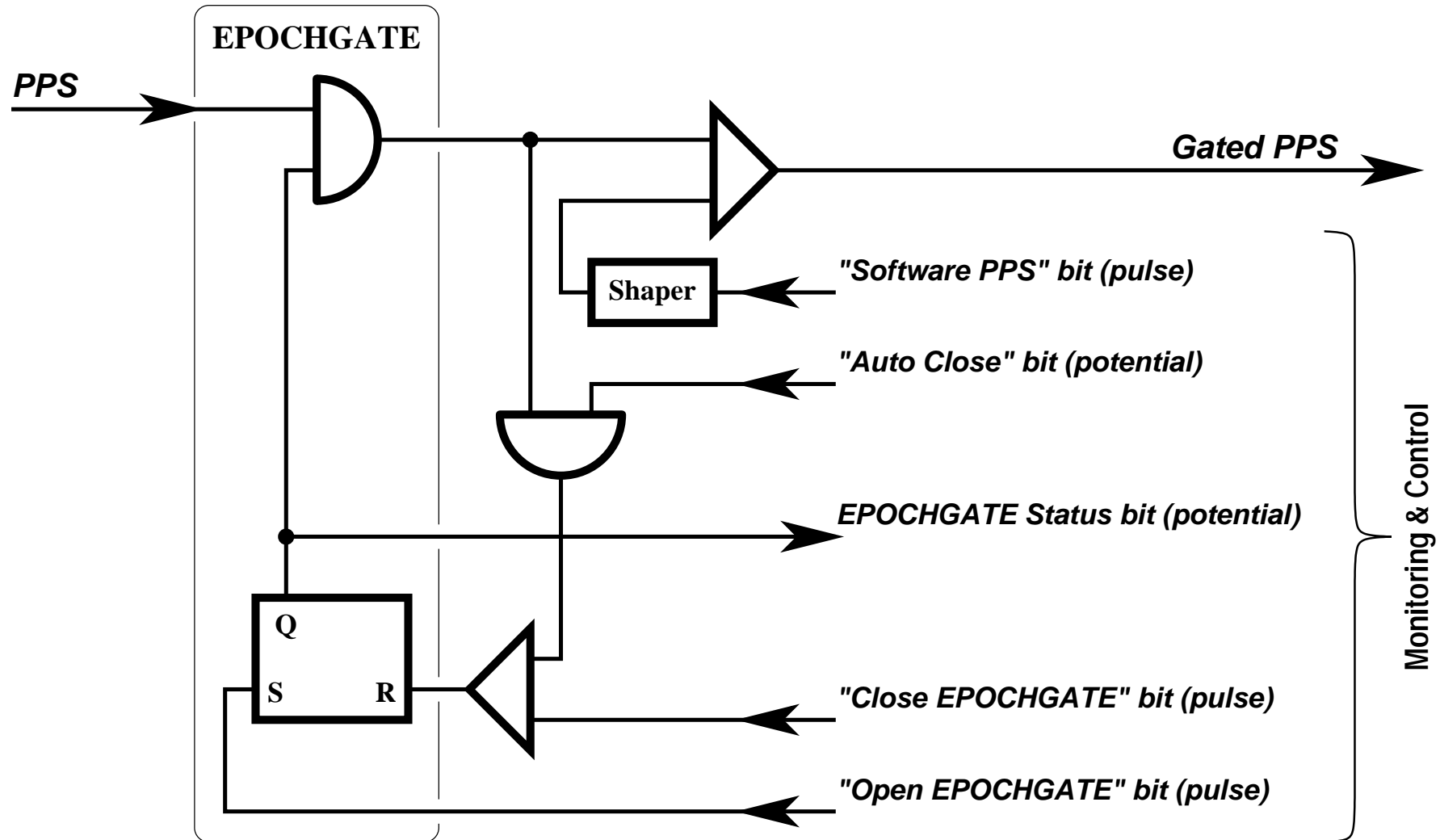
# GPS: Peter's Proposal



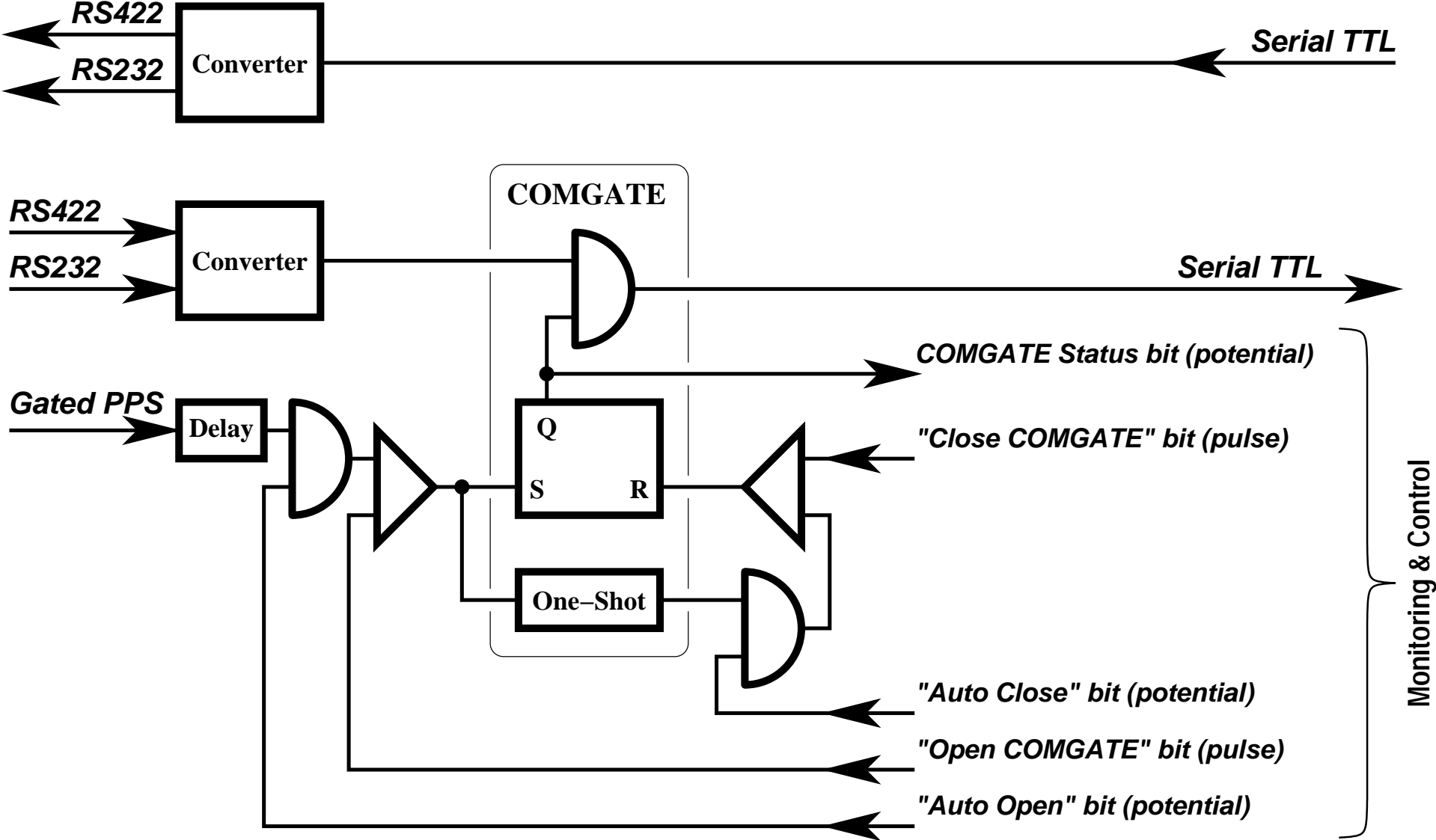
# GPS Operation Scheme:

1. Stop the run (set Busy signal in JLV1)
2. Wait for the next PPS from GPS (1sec max)
3. Open the gate on the serial line from GPS
4. Wait for the GPS time message
5. If the GPS time message OK start the run
6. If the GPS time message NOK go to 2

# GPSE: EPOCHGATE Logics



# GPSE: COMGATE Logics



# Open Issues:

- Get more information on GPS operations and data formats
- Refine GPS operation scheme for AMS-02
- GPS “test bench” at CERN (?)
- Who will design GPSE board?
- Who will produce GPSE FM and FS?
- Space qualification of GPSE board
- Refine GPS operation scheme for AMS-02