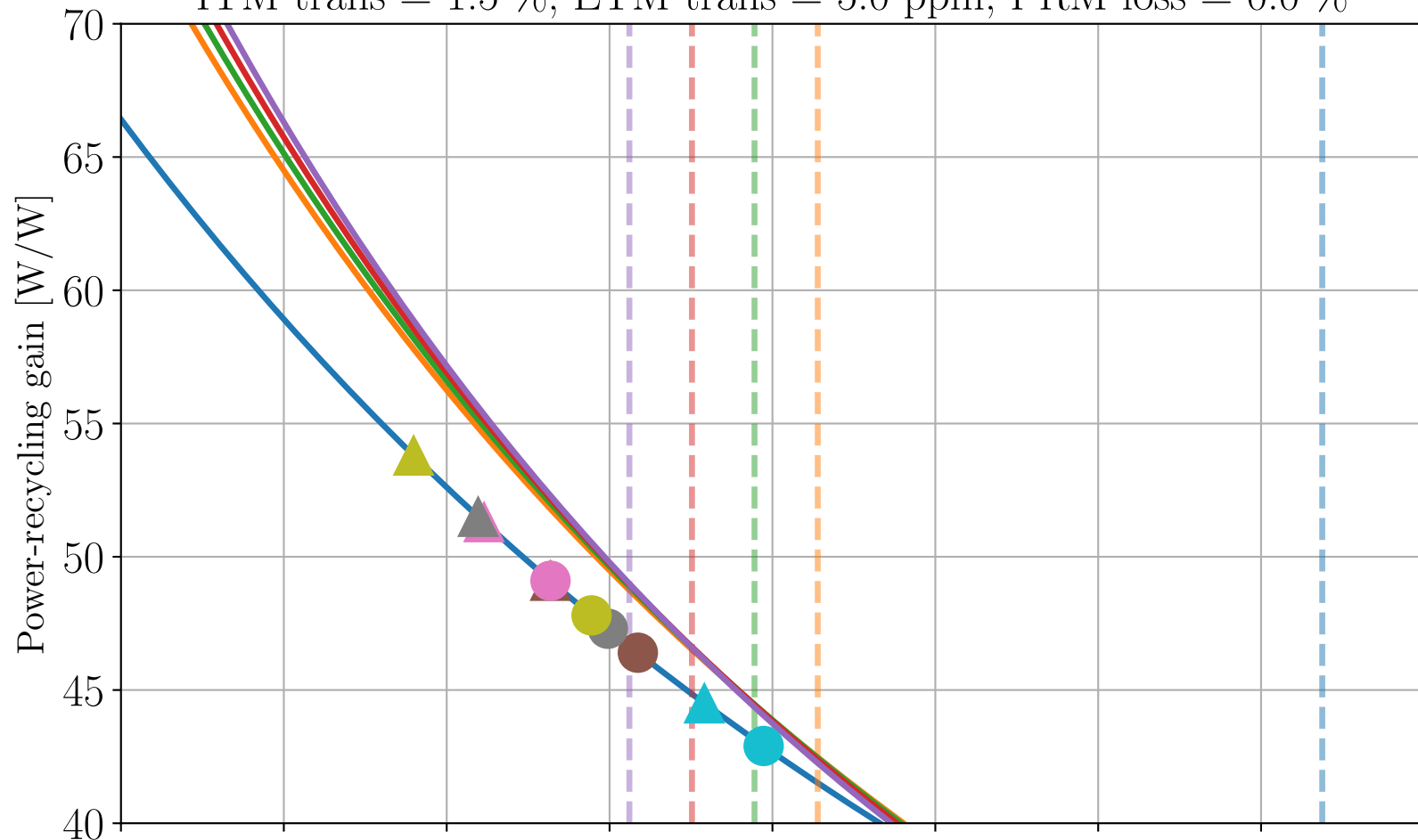


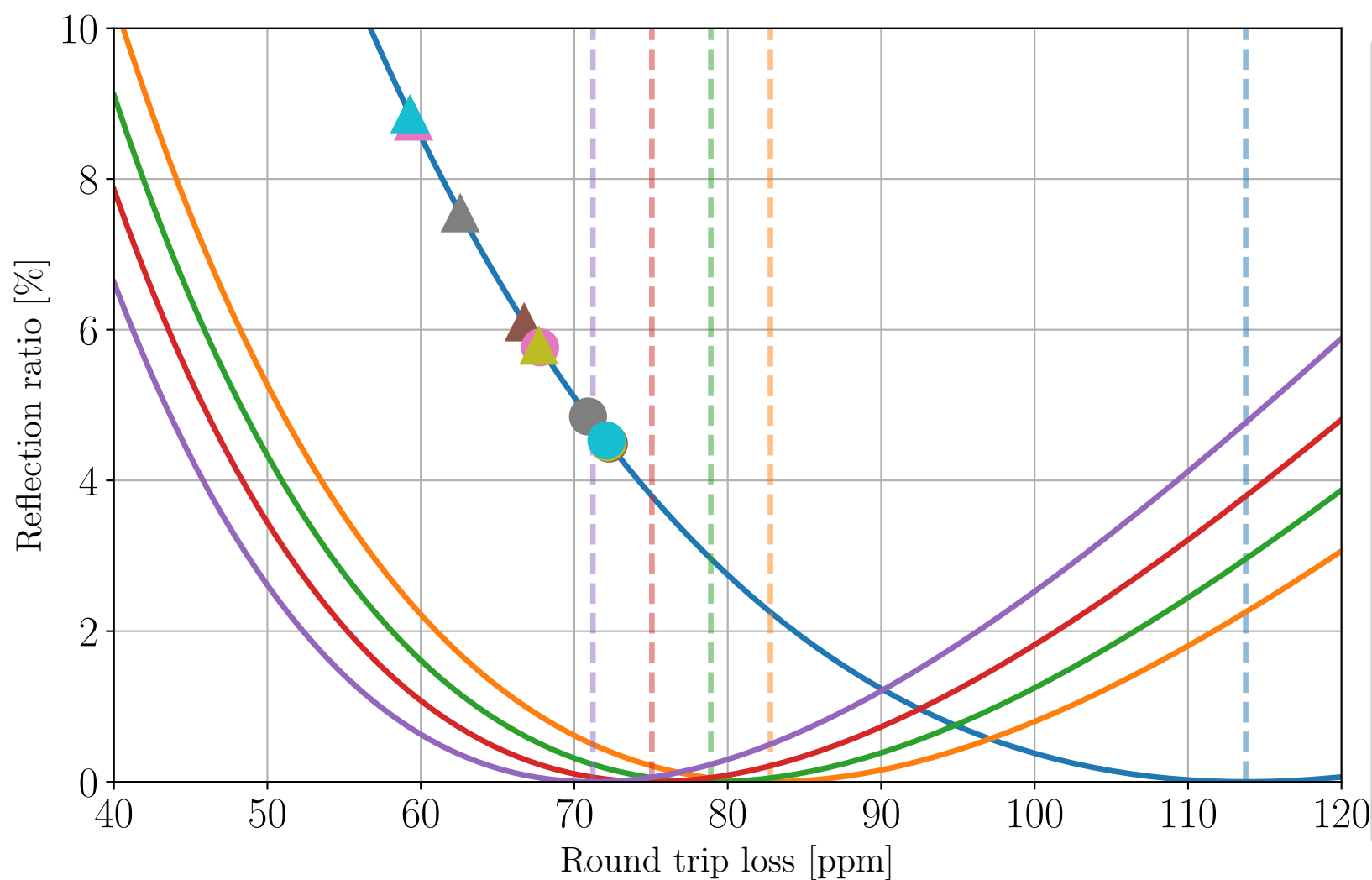
# LHO O4 CARM parameters vs round trip loss

PRC length = 57.7 m, Arm length = 3994.5 m

ITM trans = 1.5 %, ETM trans = 5.0 ppm, PRM loss = 0.0 %



- PRM 3.1 %
- PRM 2.3 %
- PRM 2.2 %
- PRM 2.1 %
- PRM 2.0 %
- April 4, 2023 initial PRG loss = 72 ppm
- April 4, 2023 final PRG loss = 66 ppm
- March 28, 2023 initial PRG loss = 66 ppm
- March 28, 2023 final PRG loss = 62 ppm
- January 15, 2023 initial PRG loss = 70 ppm
- January 15, 2023 final PRG loss = 62 ppm
- August 4, 2022 initial PRG loss = 69 ppm
- August 4, 2022 final PRG loss = 58 ppm
- April 5, 2023 initial PRG loss = 79 ppm
- April 5, 2023 final PRG loss = 76 ppm



- PRM 3.1 %
- Zero reflection at 114 ppm
- PRM 2.3 %
- Zero reflection at 83 ppm
- PRM 2.2 %
- Zero reflection at 79 ppm
- PRM 2.1 %
- Zero reflection at 75 ppm
- PRM 2.0 %
- Zero reflection at 71 ppm
- April 4, 2023 initial REFL loss = 72 ppm
- April 4, 2023 final REFL loss = 67 ppm
- March 28, 2023 initial REFL loss = 68 ppm
- March 28, 2023 final REFL loss = 60 ppm
- January 15, 2023 initial REFL loss = 71 ppm
- January 15, 2023 final REFL loss = 63 ppm
- August 4, 2022 initial REFL loss = 72 ppm
- August 4, 2022 final REFL loss = 68 ppm
- April 5, 2023 initial REFL loss = 72 ppm
- April 5, 2023 final REFL loss = 59 ppm