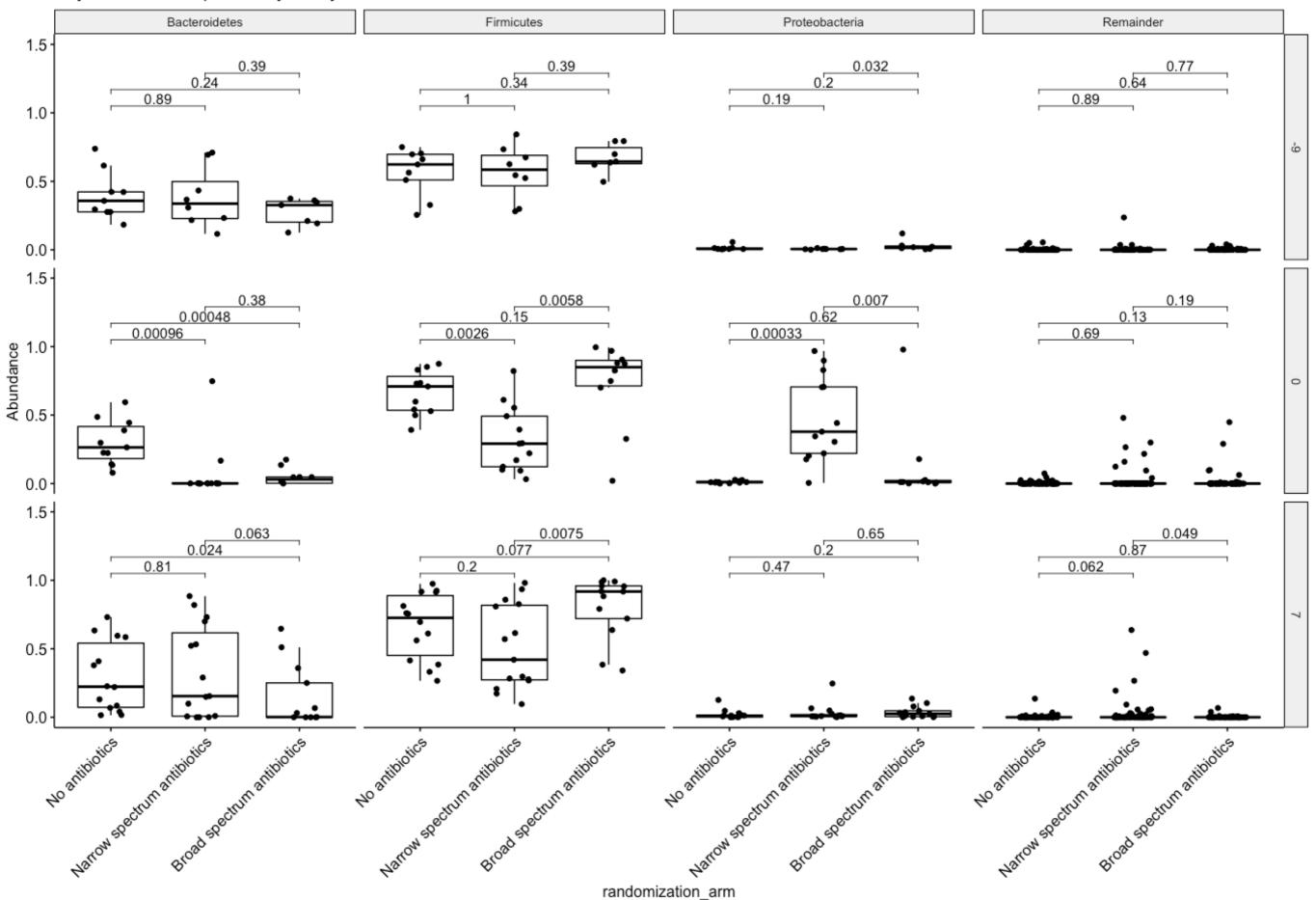
Community Composition Over Time and Randomization Arm No antibiotics No antibiotics No antibiotics -9 0 1.00 0.75 -Narrow spectrum antibiotics Narrow spectrum antibiotics Narrow spectrum antibiotics -9 0 Broad spectrum antibiotics Broad spectrum antibiotics Broad spectrum antibiotics -9 0

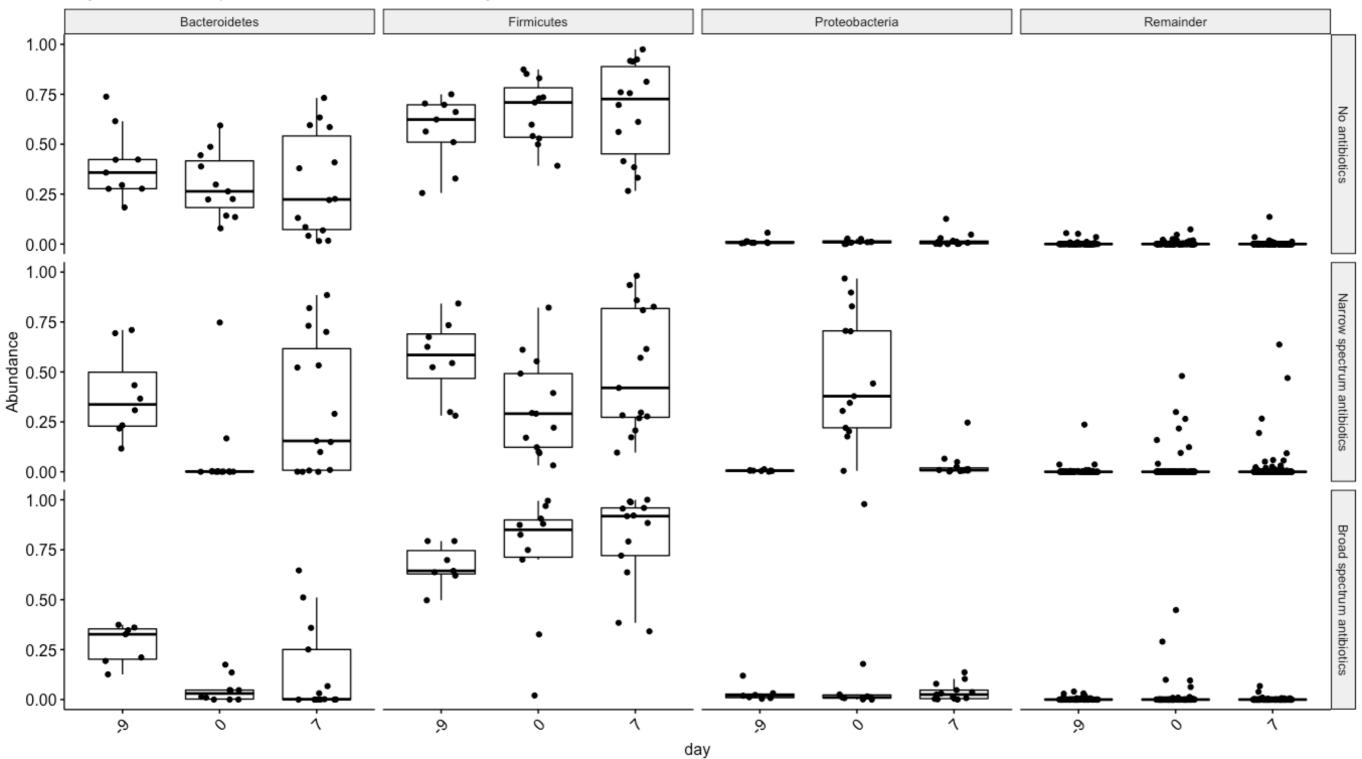


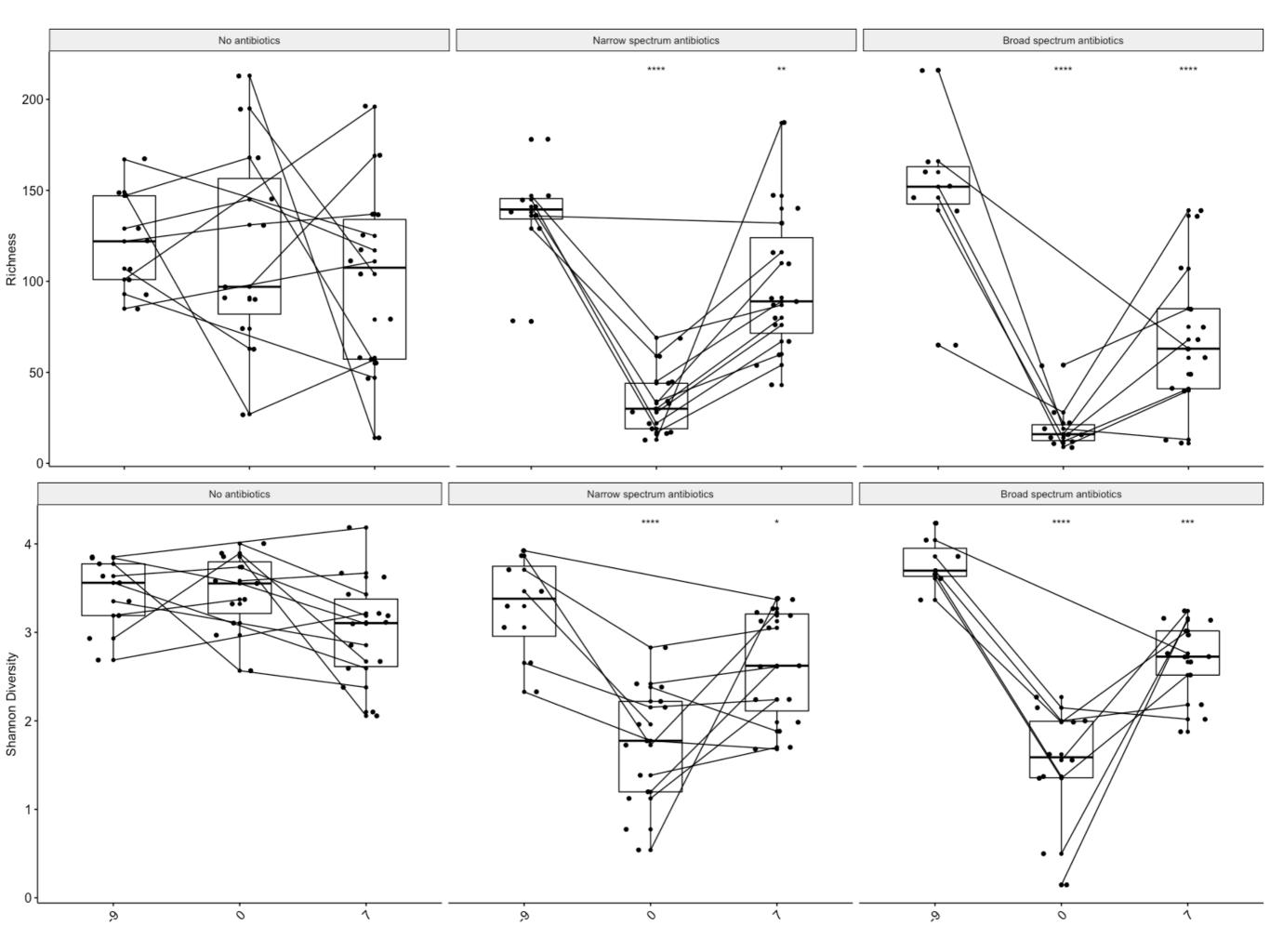
Phylum Level Boxplots: Day ~ Phylum

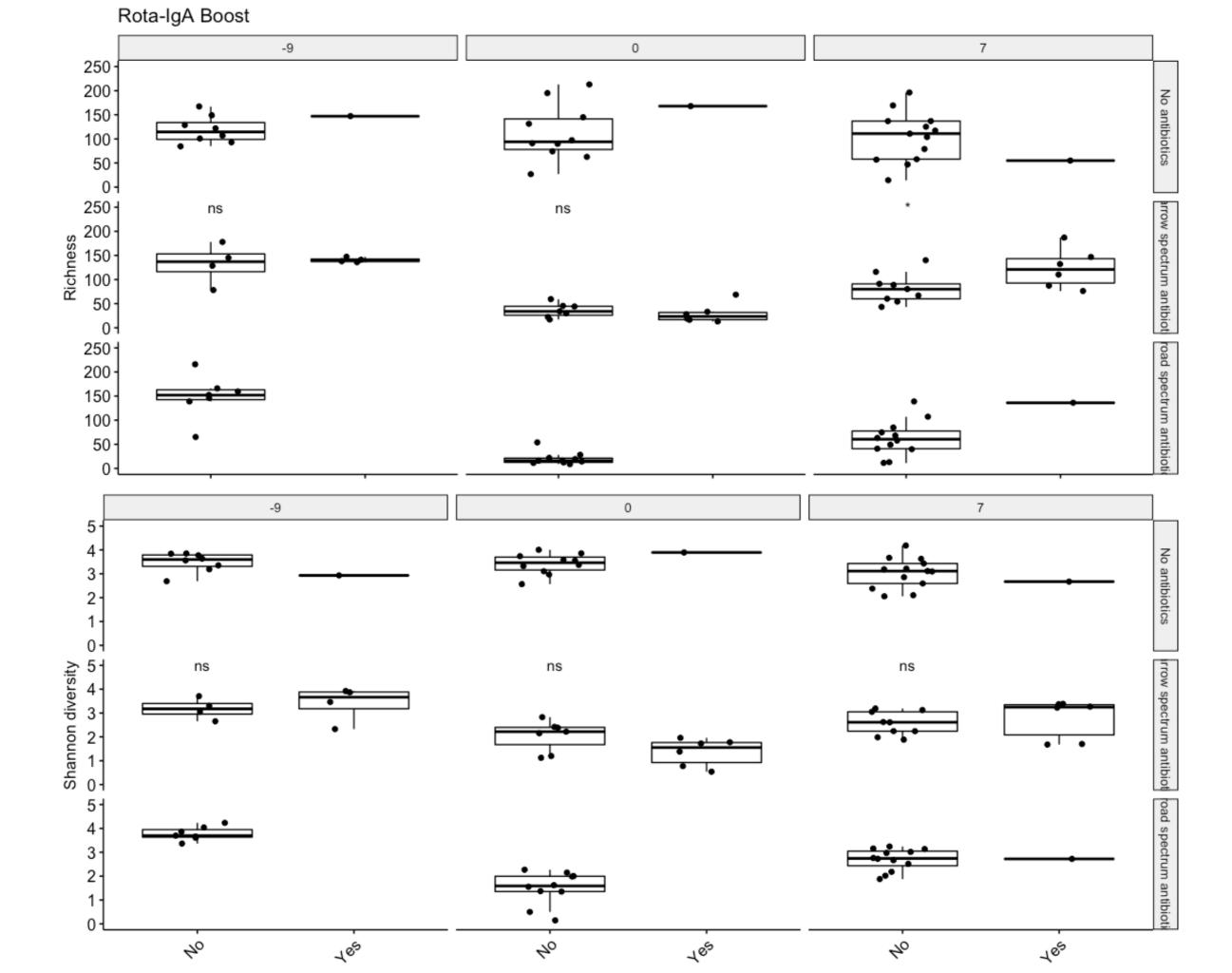


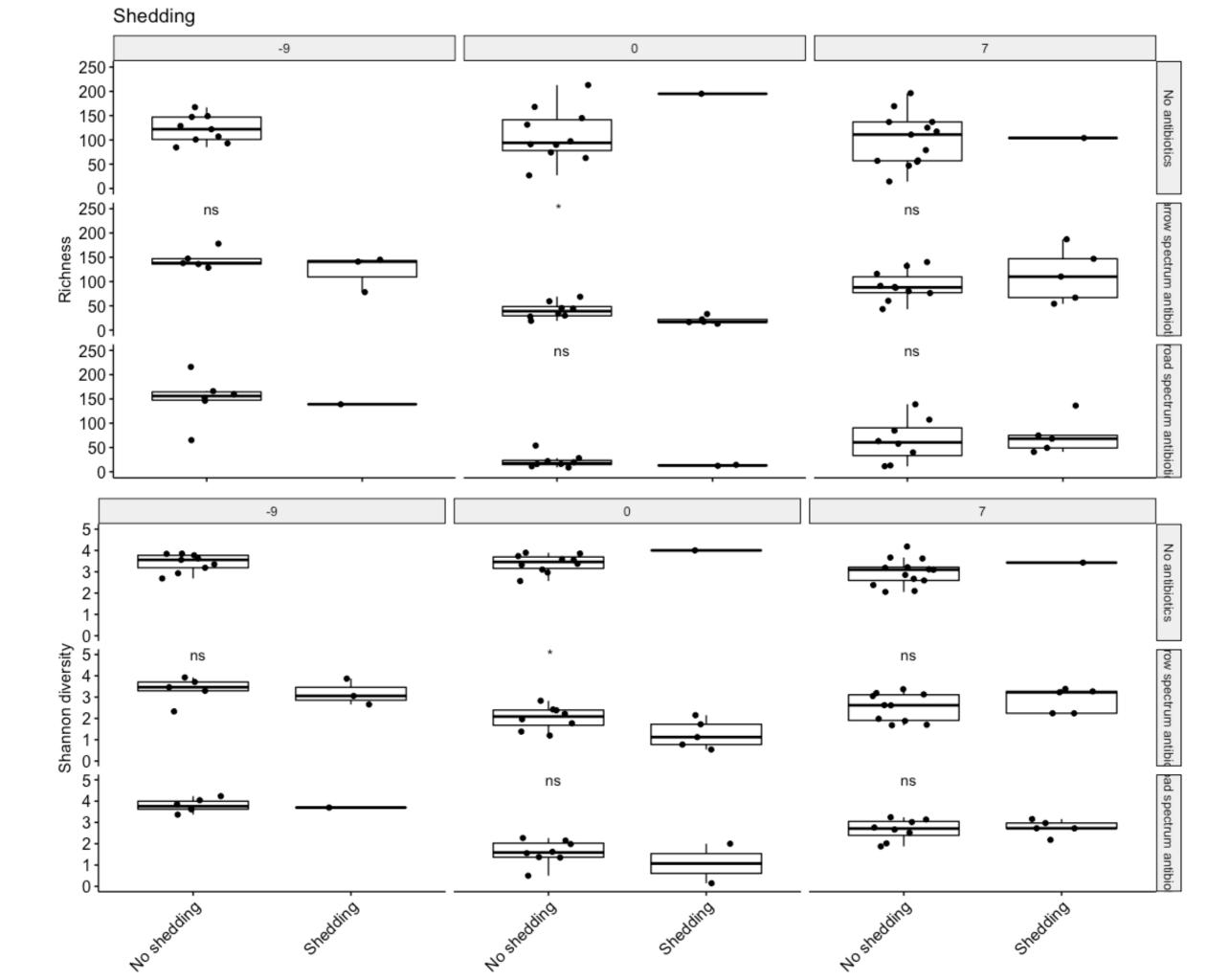
Having technical issue with putting the stats on here, but can have them if needed.

Phylum Level Boxplots: Randomization Arm ~ Phylum









wUniFrac Rotavirus IgA Boost 1.0 No antibiotics 0.5 0.0 -0.5 arrow spectrum antibiotic Axis.2 [6.4%] d7_rota_boost_updated 0.5 NoYes broad spectrum antibiotic 1.0 0.5 0.0 -0.5 -0.25 -0.50 0.00 0.25 0.50 -0.50 -0.25 0.00 0.25 0.50 -0.50 -0.25 0.00 0.25 0.50 Axis.1 [12.4%] wUniFrac Rotavirus Shedding 7 0 1.0 0.5 0.0 -0.5 1.0 arrow spectrum antibiotic Axis.2 [6.4%] Shedding No shedding Shedding 1.0 droad spectrum antibiotic 0.5 0.0 -0.5 0.0 -0.4 0.0 0.4 0.8 -0.4 0.4 0.8 -0.4 0.0 0.4

Axis.1 [12.4%]

DESeq2 Negative Binomial Test Volcano Plot Day -9 Narrow Spectrum Antibiotics ~ Rotavirus Bo DESeq2 Negative Binomial Test Volcano Plot Day 7 Narrow Spectrum Antibiotics ~ Rotavirus Boo Day 0 Narrow Spectrum Antibiotics ~ Rotavirus Boo no boost no boost boost boost boost no boost Phylum 15-Phylum Phylum Actinobacteria 15 Actinobacteria Actinobacteria Bacteroidetes 15 Bacteroidetes Bacteroidetes -log10(pvalue) -log10(pvalue) -log10(pvalue) Euryarchaeota Euryarchaeota Euryarchaeota Firmicutes Firmicutes Firmicutes Fusobacteria Fusobacteria Fusobacteria Proteobacteria Lentisphaerae Proteobacteria Spirochaetes 5 5 Synergistetes Proteobacteria Synergistetes Verrucomicrobia Verrucomicrobia Verrucomicrobia 20 -30 20 20 log2FoldChange log2FoldChange log2FoldChange

DESeq2 Negative Binomial Test Volcano Plot

