Abstract. This document contains large-format Adams charts that compute 2-complete $\mathbb{R}$-motivic stable homotopy groups. The charts are essentially complete through coweight 11, with tentative results to coweight 18.

These charts show the $E_2$-page of the $\mathbb{R}$-motivic Adams spectral sequence, i.e., the cohomology of the $\mathbb{R}$-motivic Steenrod algebra. The charts are complete through coweight 11, with tentative results to coweight 18.

1. $\mathbb{R}$-motivic Adams $E_2$-page

These charts show the $E_2$-page of the $\mathbb{R}$-motivic Adams spectral sequence, i.e., the cohomology of the $\mathbb{R}$-motivic Steenrod algebra. The charts are complete through coweight 11, with tentative results to coweight 18.

(1) Black dots indicate copies of $\mathbb{F}_2$.
(2) Green lines indicate $h_0$ multiplications.
(3) Blue lines indicate $h_1$ multiplications.
(4) Red lines indicate $\rho$ multiplications.
(5) Red arrows indicate infinite sequences of elements that are related by $\rho$ multiplications.
(6) Dashed lines indicate extensions that are hidden in the $\rho$-Bockstein spectral sequence.

2. Higher $\mathbb{R}$-motivic Adams pages

These charts show the $E_3$-page, $E_4$-page, and $E_5$-page of the $\mathbb{R}$-motivic Adams spectral sequence. The charts are complete through coweight 11, with tentative results to coweight 18.

(1) Black dots indicate copies of $\mathbb{F}_2$.
(2) Green lines indicate $h_0$ multiplications.

2010 Mathematics Subject Classification. 55T15, 55Q45, 14F42.

Key words and phrases. Adams spectral sequence, stable homotopy group, motivic stable homotopy group, cohomology of the Steenrod algebra.

The second author was supported by NSF grants DMS-1606290 and DMS-1904241.
(3) Blue lines indicate $h_1$ multiplications.
(4) Red lines indicate $\rho$ multiplications.
(5) Red arrows indicate infinite sequences of elements that are related by $\rho$ multiplications.

3. $\mathbb{R}$-motivic Adams $E_\infty$-page

These charts show the $E_\infty$-page of the $\mathbb{R}$-motivic Adams spectral sequence. The charts are complete through coweight 11, with tentative results to coweight 18.

(1) Black dots indicate copies of $\mathbb{F}_2$.
(2) Green lines indicate $h_0$ multiplications.
(3) Blue lines indicate $h_1$ multiplications.
(4) Red lines indicate $\rho$ multiplications.
(5) Red arrows indicate infinite sequences of elements that are related by $\rho$ multiplications.
(6) Dashed lines indicate extensions that are hidden in the Adams spectral sequence.

References
