

Type	BSM Particle		Current Constraints		
	Particle	g-Spin	BBN	BBN+ $\Omega_b h^2$	BBN+Planck
Neutrinophilic	Majorana	2-F	2.2	2.8	6.6
	Dirac	4-F	3.7	5.4	9.4
	Scalar	1-B	1.2	1.3	3.7
	Complex Scalar	2-B	2.3	2.9	6.7
	Vector	3-B	3.1	4.4	8.3
Electrophilic	Majorana	2-F	0.5	3.7	8.0
	Dirac	4-F	0.7	7.0	10.9
	Scalar	1-B	0.4	0.6	5.2
	Complex Scalar	2-B	0.5	4.0	8.1
	Vector	3-B	0.6	5.8	9.8

TABLE I. **Small Error:** Lower bounds at 95.4% CL on the masses for $\sigma(\text{D}/\text{H})^{\text{theo}} = 0.036 \times 10^{-5}$

Type	BSM Particle		Current Constraints		
	Particle	g-Spin	BBN	BBN+ $\Omega_b h^2$	BBN+Planck
Neutrinophilic	Majorana	2-F	± 0.0	-0.1	$+0.4$
	Dirac	4-F	± 0.0	-0.1	$+0.5$
	Scalar	1-B	± 0.0	± 0.0	$+0.5$
	Complex Scalar	2-B	± 0.0	± 0.0	$+0.4$
	Vector	3-B	± 0.0	-0.1	$+0.5$
Electrophilic	Majorana	2-F	± 0.0	-0.3	-1.0
	Dirac	4-F	± 0.0	-0.3	-1.0
	Scalar	1-B	± 0.0	± 0.0	-1.1
	Complex Scalar	2-B	± 0.0	-0.3	-1.0
	Vector	3-B	± 0.0	-0.2	-1.0

TABLE II. **Medium Error:** Change in 95.4% CL on the masses for $\sigma(\text{D}/\text{H})^{\text{theo}} = 0.05 \times 10^{-5}$

Type	BSM Particle		Current Constraints		
	Particle	g-Spin	BBN	BBN+ $\Omega_b h^2$	BBN+Planck
Neutrinophilic	Majorana	2-F	± 0.0	-0.4	$+1.5$
	Dirac	4-F	-0.1	-0.7	$+1.6$
	Scalar	1-B	± 0.0	-0.1	$+1.6$
	Complex Scalar	2-B	± 0.0	-0.3	$+1.5$
	Vector	3-B	± 0.0	-0.6	$+1.5$
Electrophilic	Majorana	2-F	± 0.0	-2.8	-3.2
	Dirac	4-F	± 0.0	-2.5	-3.0
	Scalar	1-B	± 0.0	-0.1	-3.8
	Complex Scalar	2-B	± 0.0	-2.8	-3.1
	Vector	3-B	± 0.0	-2.4	-3.0

TABLE III. **Large Error:** Change in 95.4% CL on the masses for $\sigma(\text{D}/\text{H})^{\text{theo}} = 0.13 \times 10^{-5}$

Neutrinophilic Case

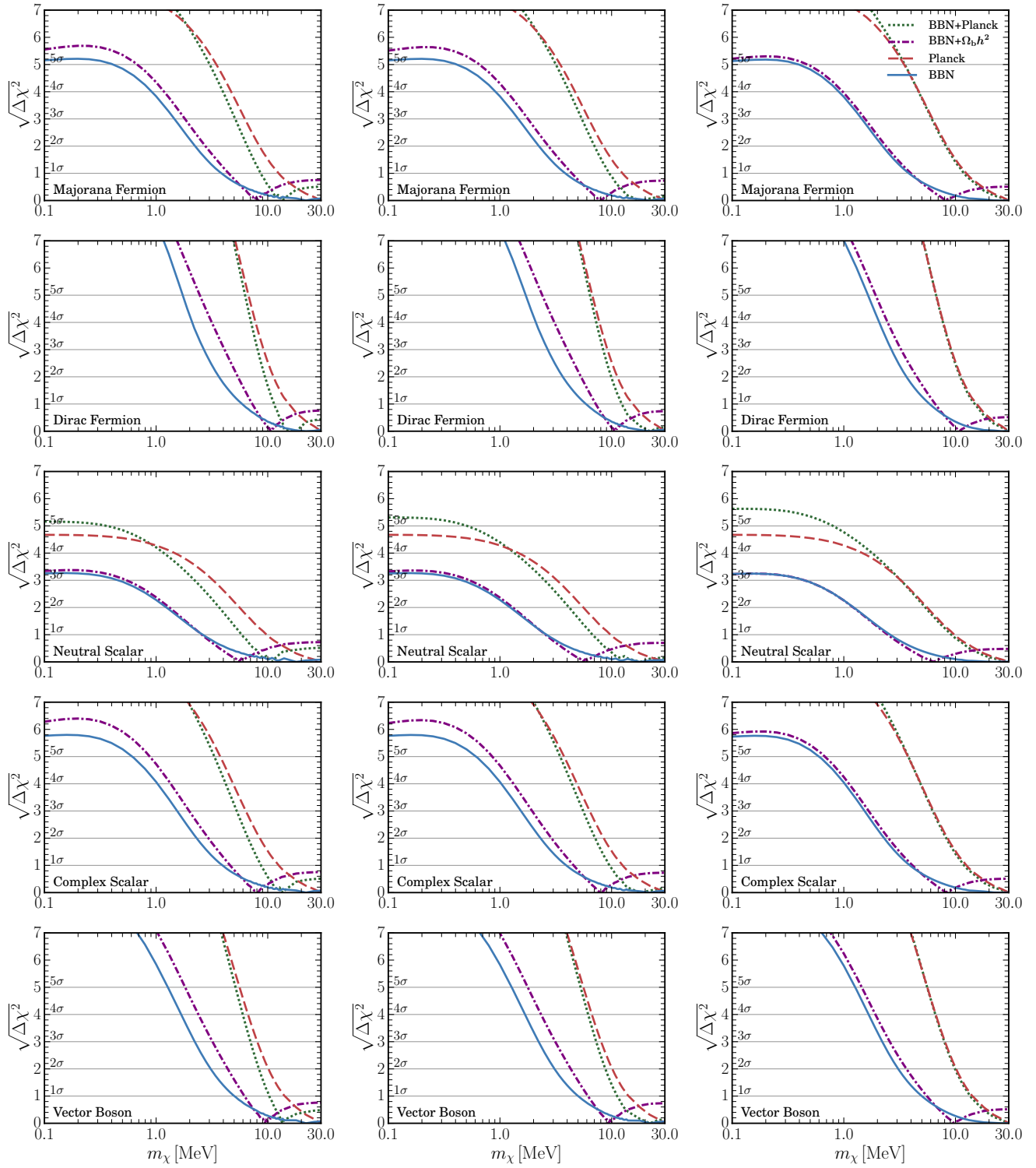


FIG. 1. **Left:** $\sigma(D/H)^{\text{theo}} = 0.036 \times 10^{-5}$ **Middle:** $\sigma(D/H)^{\text{theo}} = 0.05 \times 10^{-5}$ **Right:** $\sigma(D/H)^{\text{theo}} = 0.13 \times 10^{-5}$

Electrophilic Case

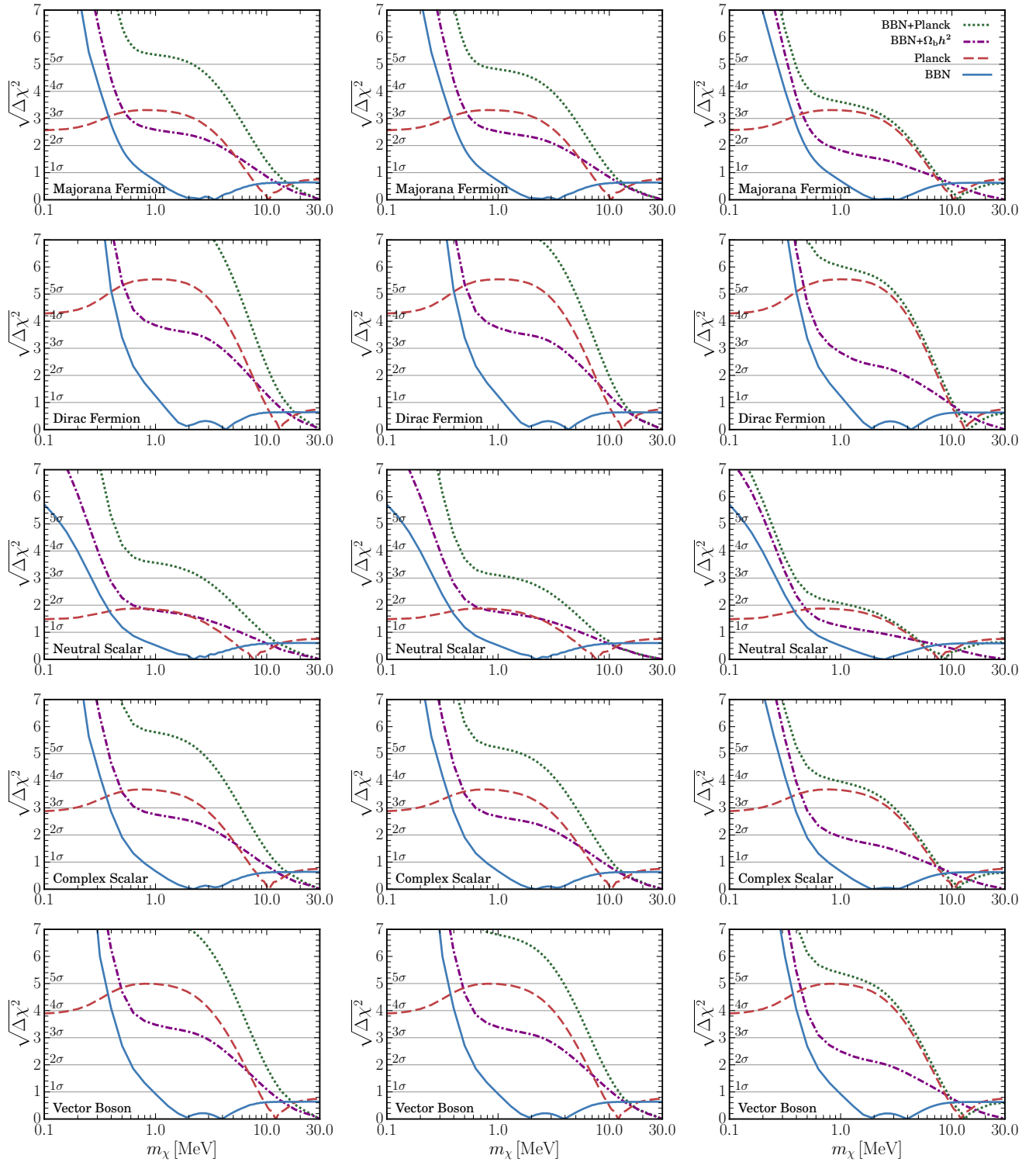


FIG. 2. **Left:** $\sigma(D/H)^{\text{theo}} = 0.036 \times 10^{-5}$ **Middle:** $\sigma(D/H)^{\text{theo}} = 0.05 \times 10^{-5}$ **Right:** $\sigma(D/H)^{\text{theo}} = 0.13 \times 10^{-5}$