

	O4			O5		
	Total	$20 < \Omega_{90\%} \leq 100$	$\Omega_{90\%} \leq 20$	Total	$20 < \Omega_{90\%} \leq 100$	$\Omega_{90\%} \leq 20$
NS–NS	$34^{+78}_{-25}$	$2.5^{+5.7}_{-1.8}$	$2.4^{+5.6}_{-1.8}$	$190^{+410}_{-130}$	$22^{+49}_{-15}$	$13^{+29}_{-9.1}$
NS–BH	$72^{+75}_{-38}$	$6.8^{+7.1}_{-4.0}$	$4.3^{+4.5}_{-2.5}$	$360^{+360}_{-180}$	$45^{+45}_{-23}$	$23^{+23}_{-12}$
BH–BH	$106^{+65}_{-42}$	$19^{+12}_{-7.7}$	$15^{+9.3}_{-6.0}$	$480^{+280}_{-180}$	$104^{+61}_{-39}$	$70^{+41}_{-26}$

**Table 1.** Realistic expectations for NS–NS, NS–BH and BH–BH merger detection during LVK O5, assuming a duration of one calendar year for the run. Information is also reported for O4 for comparison, to stress the big difference in the number of well localized sources expected between O4 and O5. The table indicates the total number of expected detections and those with localization uncertainty  $\Omega_{90\%} \leq 20 \text{ deg}^2$  and  $20 \text{ deg}^2 < \Omega_{90\%} \leq 100 \text{ deg}^2$ . The reported values are based on results obtained by [Petrov et al. \(2021\)](#).