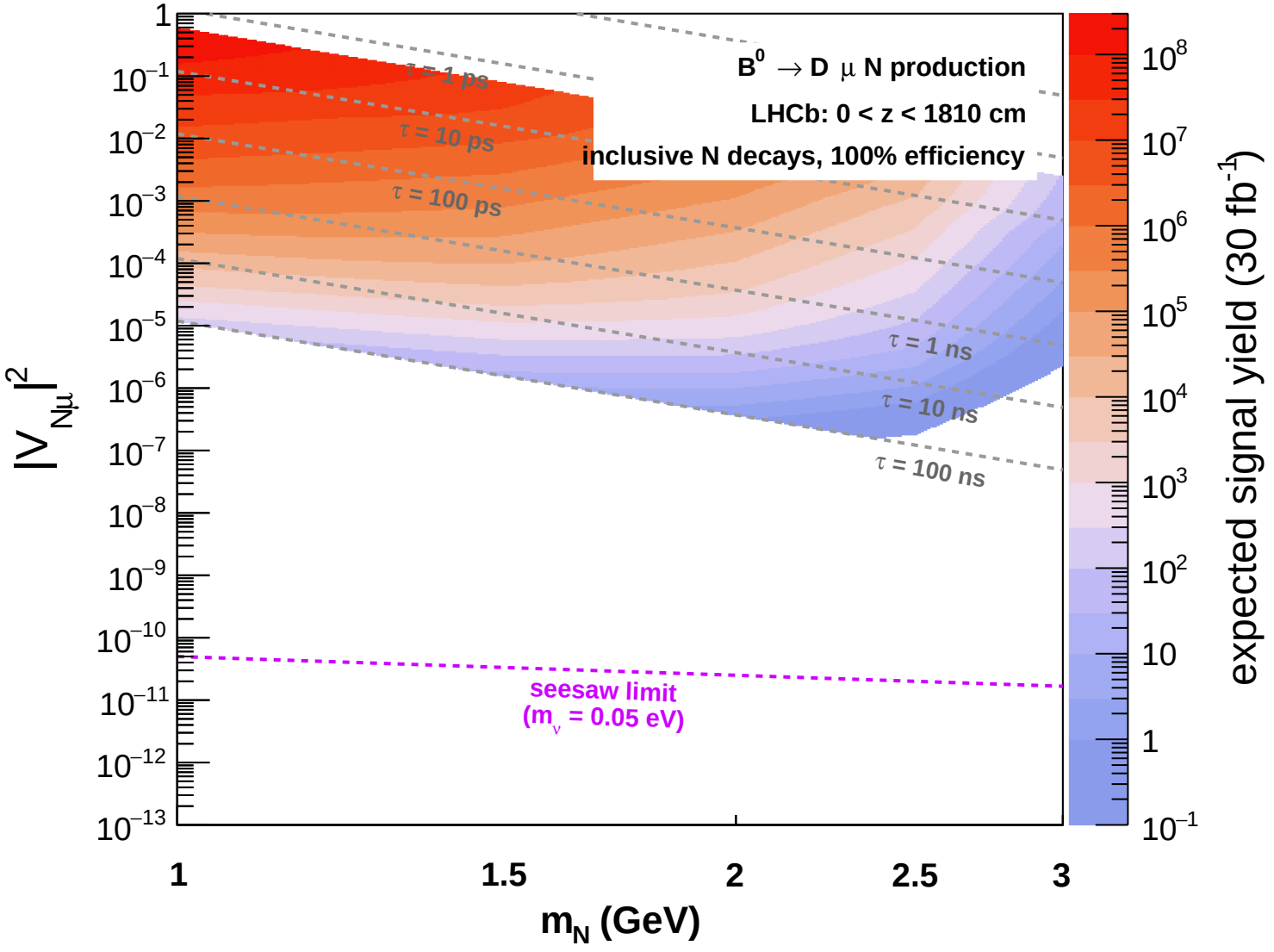
$B^0 \to D\ \mu\ N$ production
LHCb: 0 < z < 1810 cm
inclusive N decays, 100% efficiency
τ = 1 ps
τ = 10 ps
τ = 100 ps
τ = 1 ns
τ = 10 ns
τ = 100 ns
seesaw limit
(m_ν = 0.05 eV)
$|V_{N\mu}|^2$
m_N (GeV)
expected signal yield (30 fb^{-1})
1
10^{-1}
10^{-2}
10^{-3}
10^{-4}
10^{-5}
10^{-6}
10^{-7}
10^{-8}
10^{-9}
10^{-10}
10^{-11}
10^{-12}
10^{-13}
1
1.5
2
2.5
3
10^8
10^7
10^6
10^5
10^4
10^3
10^2
10
1
10^{-1}