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abstract a dual polarized antenna with a wide impedance bandwidth and high selectivity is presented for the use of 5g sub 6 ghz base stations by strategically introducing a novel coupled dual mode grid structure two additional resonant modes one is in band and another one is out of band as well as two radiation nulls can be obtained to a wideband dual polarized antenna with high isolation is proposed for full duplex applications it consists of a radiating patch two e shaped strips a parasitic patch a metal reflector and a 180 power divider low profile wideband dual polarized patch antenna based on differential paired multi mode arms by yuanchun li 1 lijuan wei 1 kaixu wang 2 3 4 hanzhen cai 2 and zihao chen 2 3 4 1 school of electronic and information engineering south china university of technology guangzhou 510006 china 2 qi et al 2022 designed an ultra wideband dual polarized base station antenna for lte 5g bands by adding a bow like parasitic patch the antenna finally obtains a wide band of 50 4 2 24 3 75 ghz and realizes high isolation by using a Γ microstrip line a novel dual wideband dual polarised magnetoelectric me dipole antenna for the fourth generation 4g fifth generation 5g microcell base station is proposed using a pair of orthogonal me dipoles and Γ shaped tapered cross feeding lines the initial antenna achieves dual band and dual polarised ultra wideband dual polarized transmitarray antenna with vivaldi elements xiao 2021 international journal of rf and microwave electronics

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