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Abstract: The directional diagram of the charge transport through a 'clean' and short monolayer graphene junction GJ exposed to an external electromagnetic field had been examined. We find that the photon-assisted resonant chiral tunneling across the monolayer graphene junction (GJ) causes an angular redistribution of the tunneling current density. The directional a.c. transport phenomena may be utilized in novel nanoelectronic devices working in the THz frequency range.