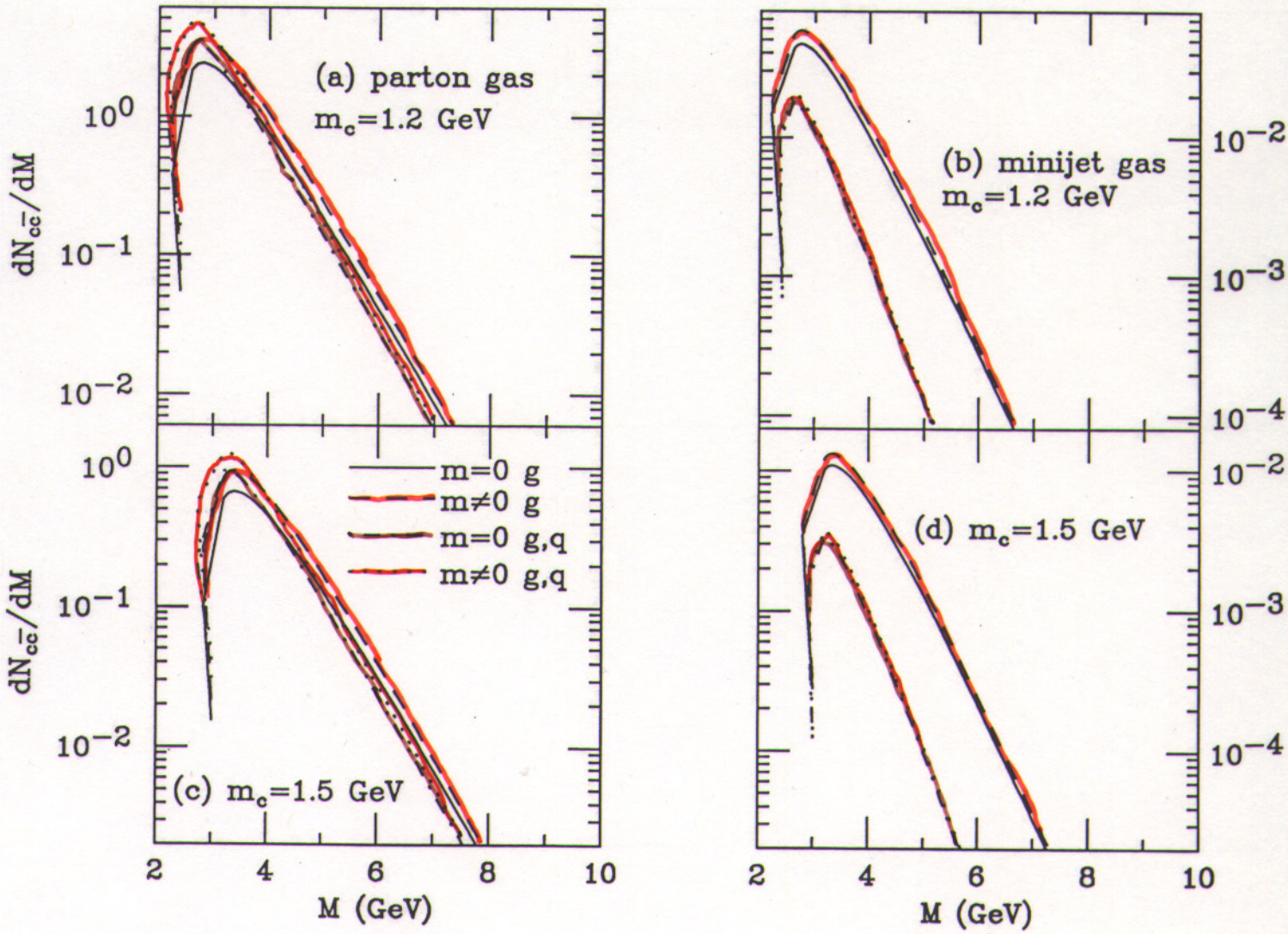Thermal Charm Mass Distribution