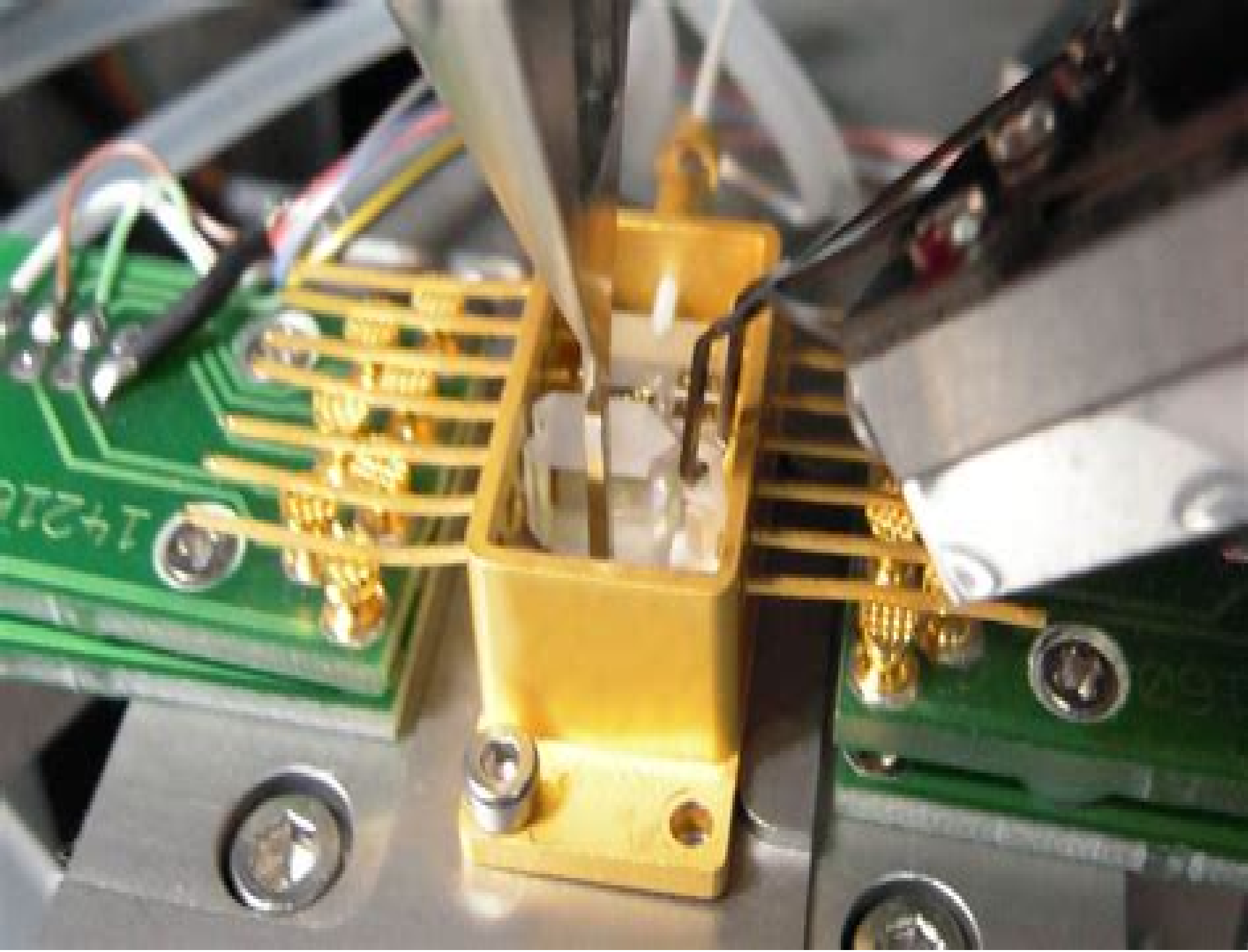




Active Glab For Photonic Devices

Marina Lekić, Aleksandar Krmpot



Active Glab For Photonic Devices:

Book of abstracts PHOTONICA2017 The Sixth International School and Conference on Photonics & COST actions: MP1406 and MP1402 & H2020-MSCA-RISE-2015 CARDIALLY workshop Marina Lekić, Aleksandar Krmpot, 2017-08-28

Block Copolymer Photonic Crystals Jongseung Yoon, 2006 Block copolymers have proven to be a unique materials platform for easily fabricated large area photonic crystals While the basic concept of block copolymer based photonic band gap materials has been well demonstrated little work has been achieved yet in terms of realizing optically active devices using these materials n this thesis the utilization of block copolymer photonic crystals for creating self assembled active optical elements has been experimentally explored with a special emphasis on optically driven lasing and stimulus responsive tunable reflectors In pursuing these primary objectives control of thin film microdomain orientation and novel three dimensional 3D optical characterization of block copolymer photonic crystals have been also achieved both of which can greatly help optimize the properties of block copolymer photonic crystals First a laser cavity using block copolymer based one dimensional 1D photonic crystals has been demonstrated Optically pumped surface emitting lasing has been obtained using a dye doped polymers as the organic gain medium and the self assembled block copolymer as the spectral band selective distributed Bragg reflector feedback element

Photonic Devices Based on Hybrid Organic-inorganic Xerogel Polymers Ester Carregal Romero, 2012 **Polymer Photonic Devices with Frozen P-i-n Junction** Jun Gao, 1999

Passive and Electrooptic Polymer Photonic Devices, 1999 Development and characterization of photonic devices, 1902 Polimeros org nicos de natureza conjugada t m despertado bastante interessante como materiais pticos n o lineares por serem extremamente promissores para o desenvolvimento de dispositivos fot nicos como por exemplo dispositivos de comunica es Al m de possu rem resposta ptica n o linear intensa e r pida seu modo de prepara o e sua forma final apresentam grande flexibilidade Do ponto de vista de aplica o os par metros do material mais importantes s o a susceptibilidade n o linear de terceira ordem χ^3 cuja parte real est relacionada com o ndice de refra o n o linear e a parte imagin ria relacionada com o coeficiente de absor o n o linear o tempo de resposta o coeficiente de absor o linear no comprimento de onda de opera o alfa L a capacidade de processamento o limiar de dano e a estabilidade t rmica Dentre os pol meros conjugados destaca se a fam lia dos politiofenos compostos heteroc clicos de elevada estabilidade que exibem interessantes propriedades de transporte e acentuada n o linearidade de terceira ordem Neste trabalho as propriedades pticas do politiofeno X 3 partes real e imagin ria alfaL e tempo de resposta foram investigadas experimentalmente A t cnica utilizada para medida dos efeitos n o lineares de terceira ordem foi a t cnica de Z scan convencional Os valores absolutos e s sinais do ndice de refra o n o linear e do coeficiente de absor o n o linear foram encontrados como sendo da ordem de 10^{-12} cm² W e 10^{-8} cm W respectivamente Para analisar os resultados experimentais foi necess rio utilizar um tratamento te rico relativamente novo Esta abordagem te rica diferente da convencional e fornece resultados satisfat rios que descrevem bem os resultados experimentais O tempo de

resposta da não linearidade do politiofeno foi obtido com a técnica de Z scan resolvida no tempo utilizando um nico comprimento de onda e polariza es cruzadas O valor obtido foi inferior 100 os Al m de caracterizar o politiofeno foi tamb m demonstrada a utiliza o dexte pol mero como porta l gica E AND m atrav s de uma medida envolvendo chaveamento Kerr Este experimento mostrou que poss vel realizar um chaveamento total ptico onde um feixe de luz controlado por um outro feixe de luz com dura o de algumas dezenas de picossegundos

Physics of Space-Related Effects in Multiple-Quantum Well Photonic Devices, 2001 The objective of this program is to understand the effects of space radiation on multiple quantum well MQW photonic devices through a coordinated program of experimental characterization analysis and modeling The work has focused on MQW laser diodes Photonic devices based on MQW technology are widespread in both commercial and military applications Such devices and systems offer an ideal opportunity for understanding the effects of the space radiation environment on nano structures and provide insight into the physics of radiation effects on a class of devices that will revolutionize future electronic and optoelectronic systems In this program we have looked at proton irradiation effects in MQW laser diodes quantum dots and high electron mobility transistors Irradiation has been performed using high energy protons because they produce both long term ionization damage and displacement damage

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